

# **EXHIBIT 612**



WILLIAM L. GALANTER, M.D.

August 3, 2011

1 A P P E A R A N C E S:

2 ERNST LAW GROUP

BY: MR. DON ERNST

3 MR. TERRY KILPATRICK

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(800) 941-9930

5 (Appeared via videoconference.)

6 On behalf of the Plaintiffs;

7 SHOOK HARDY & BACON LLP

8 BY: MS. HUNTER K. AHERN

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(Appeared via telephone.)

11 On behalf of the Defendant Mylan;

12

13 TUCKER ELLIS & WEST LLP

BY: MR. EDWARD E. TABER

14 1150 Huntington Building

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15 Cleveland, Ohio 44115

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On behalf of the Defendant Actavis Totowa, LLC.

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## I N D E X

WITNESS PAGE

WILLIAM L. GALANTER, M.D., Ph.D.

By Mr. Ernst

Examination 04, 135

By Mr. Taber

Examination 133

EXHIBITS MARKED FOR ID

Deposition Exhibit

No. 1 Dr. Galanter's CV 04

No. 2 Dr. Galanter's Report 05

No. 3 Articles 08

No. 4 Vorpahl and Coe Article 10

No. 5 Amended Notice to Take Deposition 24

No. 6 NMS Labs Report 30

No. 7 CVS Caremark Letter 68



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1 (Witness duly sworn.)

2 WILLIAM L. GALANTER, M.D., Ph.D.,  
3 having been first duly sworn, was called as a witness  
4 herein, was examined and testified as follows:

5 E X A M I N A T I O N

6 BY MR. ERNST:

7 Q Would you state your full name for the  
8 record, please?

9 A William Galanter.

10 Q And you are a licensed physician in the  
11 State of Illinois?

12 A Yes.

13 Q And you have furnished to us a CV, and that  
14 CV doesn't have a date on it, but, to your knowledge,  
15 is your CV up to date?

16 A Yes. The date of the CV is the date of the  
17 opinion. So it was up to date as of that time.

18 MR. ERNST: All right. Let's mark your CV.  
19 You know, we will just shorthand this. Let's mark  
20 this CV as Exhibit 1.

21 (Document marked as Exhibit 1 for  
22 identification.)

23 BY MR. ERNST:

24 Q And it is your testimony that everything in

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1 here is true and accurate?

2 A Correct. There is a very minor change of  
3 one of the in-press articles got published, but minor.  
4 Other than that, it is up to date.

5 Q Okay. That's great.

6 And you did a report for Mr. Moriarty, true?

7 A Yes.

8 MR. ERNST: And we are going to mark that  
9 report as Exhibit 2.

10 (Document marked as Exhibit 2 for  
11 identification.)

12 BY MR. ERNST:

13 Q And I have a copy of what was furnished to  
14 us. Can you hold up a copy of your report for me,  
15 please?

16 A (Indicating).

17 Q And is the top left corner dated 5/23/11?

18 A Yes.

19 Q All right. Exhibit 2, to your knowledge, is  
20 true and accurate?

21 A Yes.

22 Q And does it contain all the opinions that  
23 you intend to offer at the time of trial?

24 MR. TABER: Objection.

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1 THE WITNESS: I haven't really thought about  
2 a trial.

3 BY MR. ERNST:

4 Q All right. One of the reasons for this  
5 deposition today is to make sure that I have all of  
6 your opinions that you intend to render at the time of  
7 trial, and, to your knowledge, do you have any  
8 opinions outside this report, Exhibit 2, that you  
9 intend to render at the time of trial as you sit here  
10 today?

11 MR. TABER: Objection, overbroad.

12 Go ahead.

13 THE WITNESS: As of this moment, no, but I  
14 assume, if this goes to trial, there might be  
15 additional information that I would read. So I  
16 couldn't venture as to what else I might want to say  
17 at that time depending on what other information  
18 becomes available.

19 BY MR. ERNST:

20 Q I understand that you may want to review  
21 other stuff.

22 Have you had an opportunity to review the  
23 deposition of Keith Gibson?

24 A Yes.

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1 Q And you have reviewed his report?

2 A Yes.

3 Q And has it changed any of your opinions in  
4 your report that you have marked here as Exhibit 2?

5 A No.

6 Q All right. So as far as you know, as you  
7 sit here today, Exhibit 2 contains the opinions that  
8 you intend to offer at the time of trial?

9 MR. TABER: Objection, asked and answered.

10 THE WITNESS: As of this moment, yes.

11 MR. ERNST: All right. Thank you.

12 THE WITNESS: But I can't mention anything  
13 in the future.

14 BY MR. ERNST:

15 Q All right. What I would like to do is ask  
16 you what publications that you have brought with you,  
17 and in your report you listed 16 of them?

18 A Yes.

19 Q Did you bring all of those with you?

20 A Yes.

21 Q Are they in a stack with you there?

22 A Yes. That's all these here (indicating).

23 MR. ERNST: All right. What I would like to  
24 do is to mark all of those, that stack of documents,

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1 and for each article, we are going to, for the  
2 literature reference material, we are going to mark  
3 that stack as Exhibit 3 if that's okay with you.

4 (Documents marked as Exhibit 3 for  
5 identification.)

6 BY MR. ERNST:

7 Q By the way, what I would like to do is to  
8 have the court reporter copy them so you have your  
9 original file back. Is that all right with you,  
10 Doctor?

11 A Yes. I actually have them on-line. She can  
12 have them if she wants them. I guess it is up to you.

13 Q That would be fine. That would be fine.

14 Why don't we just mark that stack as  
15 Exhibit 3, and do you have each of the articles broken  
16 out by number in that stack, Doctor?

17 A No, I don't.

18 Q Do you have them broken out by title?

19 A They are not broken out. They were  
20 separately printed. So it is just the title and name.  
21 They are not alphabetized or anything.

22 Q All right. We will mark that stack as  
23 Exhibit 3.

24 So if I asked you to find a specific report

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1 in that stack, you could do that?

2 A Yes.

3 Q All right. Let's mark that as Exhibit 3.

4 And what other documentation did you bring  
5 with you to your deposition today?

6 A Well, I have my opinion, and then I have the  
7 documents shown in my opinion, but then I have  
8 additional documents that I looked at after my opinion  
9 was written.

10 Q And what documents are those?

11 A I have the deposition from Dr. Gibson and  
12 Barbieri.

13 Q Okay.

14 A I have the opinions from Dr. Gibson,  
15 Dr. Brown, and Dr. Heard or Henin, who is an ED  
16 toxicologist.

17 MR. TABER: Heard.

18 THE WITNESS: I don't remember.

19 Heard.

20 And then I have one additional paper, which  
21 was referred to by Dr. Gibson, and I got it and read  
22 it, which was Correlation of Antemortem and Postmortem  
23 Digoxin Levels. That wasn't on my initial list.

24

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1 BY MR. ERNST:

2 Q And who is the author there?

3 A Vorpahl and Coe.

4 Q Do you agree or disagree with the  
5 conclusions that Vorpahl and Coe published in that  
6 article?

7 MR. TABER: Objection, overbroad.

8 THE WITNESS: I disagree with them in terms  
9 of in their scope of generalities, but I don't suspect  
10 that they did anything immoral in their ethics. Their  
11 science, though, I think are probably the results of  
12 their study in their patient population.

13 MR. ERNST: All right. Let's mark that  
14 Vorpahl and Coe article as Exhibit 4, okay? Can we do  
15 that?

16 THE WITNESS: Is that a question to me?

17 MR. TABER: That's fine. Sure.

18 MR. ERNST: That's for the court reporter.

19 (Document marked as Exhibit 4 for  
20 identification.)

21 BY MR. ERNST:

22 Q So let's go to exhibit -- what other  
23 materials have you read following your report, Doctor?

24 A Just what I gave you just now, the list that

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1 you asked me; the two depositions, the three opinions,  
2 and the one paper.

3 Q All right. Have you had a chance to review  
4 the deposition of Dr. Lemm?

5 A Yes.

6 Q And Dr. Mason?

7 A Yes.

8 Q And Dr. Von Dollen?

9 A Yes.

10 Q Dr. Lemm concluded that Mr. McCornack died  
11 of digoxin toxicity. Are you aware of that?

12 MR. TABER: Objection. Could you give us a  
13 page cite?

14 THE WITNESS: Yes, let me look at his  
15 deposition.

16 MR. TABER: What page?

17 MR. ERNST: Well, if you don't remember, you  
18 don't remember.

19 BY MR. ERNST:

20 Q I guess a better question is: Do you  
21 disagree with the opinion of Dr. Lemm about the cause  
22 of death?

23 A If you tell me where the opinion is, I can  
24 look at it.



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1           Q     No.  Actually, I get to ask the questions,  
2 and one of the questions that I have is:  Are you  
3 aware that Dr. Lemm concluded that Mr. McCornack died  
4 of digoxin toxicity?

5           A     No.  I actually don't remember which doctor  
6 said which.

7           Q     Are you aware that -- well, if Dr. Lemm said  
8 that, do you disagree with that?

9                   MR. TABER:  Objection.  If you would like to  
10 refer to the document, I would respectfully ask  
11 counsel to tell us what page you are citing; or, if  
12 you are not citing, fine, please rephrase your  
13 question.

14                   MR. ERNST:  My question stands.

15                   MR. TABER:  We do have his deposition here.

16                   MR. ERNST:  You know, I know you do.

17 BY MR. ERNST:

18           Q     But the question that I have is:  Do you  
19 disagree with Dr. Lemm's statement that Mr. McCornack  
20 died of digoxin toxicity?

21                   MR. TABER:  Objection.

22                   THE WITNESS:  I disagree with the statement  
23 that he died of digoxin toxicity.  I would only  
24 disagree with Dr. Lemm if I was a hundred percent sure

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1 that that's what Dr. Lemm said.

2 BY MR. ERNST:

3 Q And you are aware that Dr. Mason concluded  
4 that Mr. McCornack died of digoxin toxicity?

5 MR. TABER: Objection. Same basis.

6 THE WITNESS: Yes, that's my recollection on  
7 his second opinion, on his amended opinion.

8 BY MR. ERNST:

9 Q And you disagree with that?

10 A Yes.

11 Q Now, do you perform autopsies?

12 A No.

13 Q What are the job duties of the coroner?

14 A I don't know all the job duties. I'm not in  
15 pathology. I know that they perform autopsies on  
16 certain patients based on laws in the particular area  
17 if they have suspicion that it wasn't something  
18 natural, if there is no doctor that can give a cause  
19 of death, or if the patient or family wants an  
20 autopsy. I have asked families if they want to get an  
21 autopsy in the hospital.

22 I assume that part of what they do is to do  
23 autopsies, and describe their findings, and give  
24 opinions as to the cause of death as part of their

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1 job.

2 Q Have you ever performed an autopsy?

3 A No. I have been in the room and watched  
4 when I was a student, but, no, I haven't performed an  
5 autopsy.

6 Q You are aware that the physician that  
7 performs the autopsy has the duty to determine the  
8 cause of death after examination of the body during an  
9 autopsy?

10 A That is what I assume. I have never read  
11 that law or anything, but I assume that that's their  
12 job.

13 Q And you are a professor of internal  
14 medicine?

15 A Not a full professor. I'm an assistant  
16 professor.

17 Q Let's circle back, and I want to ask you  
18 what your roles -- strike that.

19 Please state for me what your understanding  
20 is of why you were retained.

21 A I think I was retained because I had a  
22 variety of different bits of expertise as relating to  
23 this case as it was germane to digoxin, which is  
24 something I know a lot about. I'm also a practicing

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1 clinician, and I also do research on medication  
2 safety, and I use the drug. So I think there were  
3 multiple things about me that made me of interest to  
4 Mr. Taber and his firm.

5 Q Please state for me what you understand what  
6 your purpose is as an expert.

7 A What's my purpose? It is to look at all the  
8 information and to make an opinion of what I think  
9 happened.

10 Q Did you have a physician/patient  
11 relationship with Mr. McCornack?

12 A No.

13 Q And, to date, can you tell us how much you  
14 have billed Mr. Moriarty's firm; Tucker, Ellis & West?

15 A I actually just gave it yesterday. I don't  
16 know if Mr. Taber sent that to you, but I think it is  
17 around \$12,000. There is an exact amount. I  
18 apologize. I didn't bring it.

19 THE WITNESS: You probably have it, right?

20 MR. TABER: Yes.

21 THE WITNESS: I e-mailed it yesterday to  
22 Mr. Taber. I apologize. I didn't print it and bring  
23 it. It is something in that number.

24

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1 BY MR. ERNST:

2 Q Around that number?

3 A Yes.

4 Q All right. In that report that is dated  
5 5/23/11, marked as Exhibit 2, did you discuss this  
6 report with anyone before you drafted it?

7 A I guess it depends on what you mean by  
8 draft. The initial draft, no, I didn't discuss with  
9 anyone.

10 Q And you sent the draft to Mr. Moriarty?

11 A I believe so. I'm not a hundred percent  
12 sure, but I believe so.

13 Q And then Mr. Moriarty suggested changes in  
14 your report?

15 MR. TABER: All right. Hold on. Objection.

16 MS. AHERN: Objection.

17 MR. TABER: That's work product. As you  
18 know, under the new federal rule, you can't get into  
19 that. There is no discovery permitted on drafts and  
20 discussions about drafts. So let's not waste any time  
21 today. We will not permit inquiry into something the  
22 rules do not permit.

23 BY MR. ERNST:

24 Q What I would like to do is look at

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1 Exhibit 2, and I just want to make our record clear  
2 here.

3 Please state for me, looking at Exhibit 2,  
4 what suggestions Mr. Moriarty made in your report.

5 MS. AHERN: Objection.

6 MR. TABER: Objection. I'm going to let him  
7 answer --

8 THE WITNESS: Is that true of my opinion?

9 MR. TABER: Yes. Your letter. That's  
10 right.

11 THE WITNESS: I wouldn't actually know.  
12 This is my final opinion.

13 BY MR. ERNST:

14 Q So it is your testimony that your final  
15 opinion was discussed with Mr. Moriarty and  
16 suggestions were made by Mr. Moriarty before your  
17 final opinions were rendered, true?

18 MR. TABER: Objection, and that is not an  
19 appropriate subject of inquiry as you know. Please  
20 ask your next question because we are not going to  
21 permit inquiry, as I just stated, into issues that are  
22 not permissible under the rules. This is the same  
23 position that I believe all counsel have taken with  
24 experts. So we will be consistent.

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1 THE WITNESS: Answer or not answer?

2 MR. TABER: You do not need to answer that  
3 question because he is not allowed to ask you that  
4 question, which he knows.

5 BY MR. ERNST:

6 Q Well, I guess the question that I have is:  
7 In your final report, Exhibit 2, without telling me  
8 what they were, suggested changes were made by  
9 Mr. Moriarty, true?

10 MR. TABER: Objection, same basis. Maybe if  
11 you could just tune up your question a little bit,  
12 Don, and ask him if it is his authorship or did  
13 someone else write the report for him, I think that  
14 would be appropriate and fine.

15 MR. ERNST: No. I will have my last  
16 question reread, which I do think is appropriate under  
17 the rules, and I will just ask him to answer the  
18 question.

19 Can I have the last question reread, please?

20 (Record read.)

21 MS. AHERN: Objection.

22 MR. TABER: Objection.

23 You can answer.

24 THE WITNESS: Yes, he looked at it. He

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1 suggested parts that he wanted to make me sure that  
2 that's what I really meant or didn't mean, some  
3 grammatical errors that I made, and things that he  
4 wanted to verify if that's the way that I really  
5 wanted to say them, and what implications that might  
6 make about the way that people would interpret the  
7 report. He didn't suggest specific sentences to put  
8 in or anything like that.

9 BY MR. ERNST:

10 Q Well, what areas was he concerned with?

11 MR. TABER: Okay. We are not going to  
12 permit any further inquiry on this. As you know, Don,  
13 your questions are inappropriate. There was a federal  
14 rule change over a year ago that specifically says we  
15 are not to do discovery on this issue. We have  
16 respected that rule when we have deposed your experts.  
17 I would ask you to do the same. You are wasting  
18 everyone's time now.

19 MR. ERNST: Actually, that's not accurate.  
20 Those questions were asked of my expert, and I  
21 permitted them to be answered.

22 MR. TABER: Which depo?

23 MR. ERNST: Gibson.

24 MR. TABER: I respectfully disagree.



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1 MS. AHERN: I do as well.

2 THE WITNESS: Answer or not answer?

3 MR. TABER: You do not need to answer that  
4 because he is not allowed to ask you that. He knows  
5 that.

6 BY MR. ERNST:

7 Q Do you have correspondence from Mr. Moriarty  
8 to you, Dr. Galanter?

9 A No, I don't.

10 Q Can you describe for me the circumstances  
11 under which you were hired; in other words, who called  
12 you?

13 A It was actually quite a long time ago. My  
14 recollection was that I was asked to review a  
15 different case from a different lawyer, and then after  
16 that, after I started reviewing that, then I was asked  
17 to get involved with this case. That's my  
18 recollection. It was, actually, probably  
19 two-and-a-half years ago or so, but I think there was  
20 a different case first that I was looking at, and then  
21 that lawyer asked me to talk to another lawyer about  
22 this case, and that was Mr. Moriarty, and that was  
23 sometime in 2009.

24 Q And what did Mr. Moriarty tell you about the

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1 reason he wanted you to testify?

2 A I actually, quite honestly, don't entirely  
3 remember, but it was more he asked me about my  
4 qualifications, and if I would review some material  
5 form, and he started to send me some medical records.  
6 I think I reviewed medical records first and the death  
7 certificate in one big folder, and I didn't have any  
8 depositions. I want to apologize: I just don't have  
9 a clear memory. That was quite a while ago.

10 Q Okay. Let's go back.

11 Were you asked to render an opinion on the  
12 cause of death? Is that the reason, your  
13 understanding, of why you were hired?

14 A I don't know why I was hired, but later,  
15 when I wanted to put my opinion together, I am  
16 not -- I don't do expert witnessing as a business. So  
17 I did talk to Mr. Moriarty about what needed to be in  
18 my opinions.

19 Q And I just want to try and be clear: What  
20 is your understanding of what you were hired to do?

21 A I think I was hired to read all the  
22 materials and to provide an expert opinion about my  
23 beliefs on the materials; cause of death, medical  
24 illness, a variety of different things. They were

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1 looking for my expertise and my opinion of what  
2 actually happened in the case.

3 Q All right. Let's go look at some of those  
4 opinions, okay, Doctor?

5 A Sure.

6 Q Now, let's go through, first, a couple of  
7 things. I want to make sure that you have furnished  
8 to me all of the materials that you have received, and  
9 you don't have any retention letters from Mr. Moriarty  
10 or his firm?

11 A I wasn't hired on a retainer.

12 Q I'm sorry?

13 A I wasn't hired on a retainer.

14 Q Did he send you a letter saying he wanted  
15 you to look at materials?

16 A Sure, something like that.

17 Q Do you have that letter with you?

18 A No, I didn't bring those letters. I  
19 apologize if I was supposed to. I was advised I was  
20 supposed to bring information related to my opinion,  
21 and those letters didn't have anything clinical on  
22 them. They were just he sent a letter saying: "I'm  
23 about to send you a big package. I just wanted to let  
24 you know" or "I have more stuff coming," things like

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1 that. So I apologize. I actually didn't even save  
2 them. There wasn't anything clinical on them. There  
3 wasn't information on the letters.

4 Q Wasn't there a list of the material that he  
5 was going to send you?

6 A Yes, and then after I got the material, I  
7 threw them out. Sorry.

8 Q So you threw out the correspondence from  
9 Mr. Moriarty?

10 A Except those that were e-mailed.

11 Q Do you have those e-mails printed out?

12 A No, I don't. I apologize. Again, I was  
13 advised that I need to bring information germane to my  
14 opinion.

15 Q Have you reviewed the deposition notice that  
16 was forwarded to you?

17 And let's mark that as next in order, which  
18 I think is 5.

19 A Yes. I'm not a hundred percent sure I  
20 brought it.

21 MR. TABER: Don, I have a copy if you want  
22 me to hand him my copy. It is a little marked up.

23 MR. ERNST: That would be great. Thank you.

24 MR. TABER: Sure.

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1           This is the amended one that was just sent  
2 out on Friday?

3           MR. ERNST: Yes.

4           (Document marked as Exhibit 5 for  
5 identification.)

6           MR. TABER: And he and I both went through  
7 that last night. If you want me to address anything,  
8 I would be happy to as well.

9           MR. ERNST: Well, I think Item 3 is  
10 important. It says: "All other documents prepared by  
11 the attorneys for the Defendants and sent to the  
12 witness."

13           MR. TABER: And everything that is  
14 discoverable has been either identified for you both  
15 or produced, and to the extent that the enclosure  
16 letter is saying "Please find enclosed X, Y, Z" have  
17 not been produced, if you really want them, that's  
18 fine, but it is my understanding that the civil rule  
19 says that only those things that are relied upon by  
20 the expert in forming their opinions are discoverable,  
21 and you have all that. So that's why we have not  
22 given you the "Please find enclosed" letters.

23           If it is a big deal, I don't have a problem  
24 with that, as long as it is even-handedly done for all

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1 experts, but whatever.

2 MR. ERNST: Well, we asked for all  
3 correspondence and communication between the witness  
4 or anyone acting on the witness's behalf, the  
5 attorneys representing the Defendants in this  
6 MDL/Digitek litigation under Item 2. I have never had  
7 letters from the lawyers not be disclosed.

8 So here is what I would propose: There may  
9 be questions that I wish to ask, but I can't say  
10 without looking at the correspondence, but we received  
11 no objection, and I believe that we are entitled to  
12 have the letters that were sent from Mr. Moriarty or  
13 his firm and the e-mails that were sent from  
14 Mr. Moriarty or his firm to this witness.

15 MR. TABER: And have you produced all of  
16 those from all of your witnesses to us?

17 MR. ERNST: Yes, we did.

18 MR. TABER: Are you sure about that?

19 MR. ERNST: Yes.

20 MR. TABER: Okay. If you believe that there  
21 is something that is discoverable that you are  
22 entitled to, say whatever you want, but just because  
23 you asked for something doesn't mean you are entitled  
24 to it if the rules say you are not entitled to it.

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1           Again, ask him about it. Ask him if he  
2       relied upon anything in those letters if you want.  
3       This is your opportunity. So let's go ahead and get  
4       into the case and stop wasting time on enclosure  
5       letters. The list in his report tells you what he  
6       reviewed and what he relied on.

7           MR. ERNST: We are not wasting time. The  
8       issue is I want to know what Moriarty said about the  
9       case in the original letter, and we have other letters  
10      that he sent to Dr. Heard, for example, that contain  
11      detailed facts, and I suspect that these letters do as  
12      well. Without having seen them, and just by not  
13      producing them, we are behind the eight ball as to  
14      what was communicated by Mr. Moriarty initially.

15           Here is what I would propose: I would  
16      propose that you have copies of the retention letters,  
17      that those retention letters be furnished to us via  
18      e-mail today. If you have them, and you can have your  
19      office e-mail them to us, we will question this  
20      witness before the close of this deposition if that is  
21      possible for you to do.

22           Perhaps you can call your office and just  
23      have them e-mailed.

24           MR. TABER: I'm not going to stop the depo

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1 to do that. Why don't we press on, and I will make a  
2 call and inquire as to whether that is an arrangement  
3 that is suitable and that Plaintiffs have honored as  
4 well.

5 Based on your word that you have produced  
6 all this stuff for all of your experts, I will make a  
7 call at the next break, but let's push on and get  
8 moving with the depo, instead of holding it up for  
9 something that's not going to make any difference  
10 today.

11 MR. ERNST: Well, we are moving with this  
12 depo, then.

13 MR. TABER: Let's go then. Let's talk about  
14 the case.

15 BY MR. ERNST:

16 Q What else is contained in your file,  
17 Dr. Galanter, that you brought with you today that we  
18 have not already discussed?

19 A Nothing. It is the materials reviewed, plus  
20 the additional materials reviewed that I went over at  
21 the beginning; the two depositions, the three  
22 opinions, and the one additional paper.

23 Q All right. Let's ask you some questions  
24 about Mr. McCornack. In your opinions, you write that



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1 his medication consumption was reliable; is that  
2 accurate?

3 A What page are you at?

4 Q It is on Page 3, under opinions regarding  
5 the cause of death.

6 A Yes, I said it was likely reliable, and the  
7 answer is, yes, I think from looking at his digoxin  
8 levels over the years from his visits and the  
9 stability of his medications, compared to the average  
10 patient, my guess is that he was, most likely, a  
11 reliable patient in terms of his medication use.

12 Q What do you mean by "reliable patient"?

13 A Well, roughly -- I don't know on the  
14 average, but somewhere between 5 and 15 percent of  
15 medications prescribed to patients are not taken on  
16 the average, and no one takes a hundred percent of  
17 their medicines. So when I'm saying reliable, I don't  
18 think there is a standard for it, but I'm saying he  
19 probably took 90 to 95 percent of the medicines given  
20 to him in a manner, and that's a guess, and that's why  
21 I used the word "likely". I don't think, from reading  
22 the record, he was a person that blew off his  
23 medications all the time.

24 Q So what you mean is that he was compliant in

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1 taking his medication?

2 A Reasonably compliant. I don't think there  
3 is such a thing as a patient that is a hundred percent  
4 compliant. That's what the literature suggests.

5 Q What you mean is that in review of the  
6 records, it came across that he took his medication on  
7 a regular basis, and took it as directed by his  
8 physician, true?

9 A Yes.

10 Q And there is no evidence that he, in the  
11 weeks or days or hours before his death, took any  
12 double doses or anything of that nature, true?

13 A There is no evidence in the records given to  
14 me of that.

15 Q Okay. There is some Diltiazem that was  
16 mentioned in the toxicological report taken after his  
17 death?

18 By the way, do you have that report from NMS  
19 Labs?

20 A Yes, I do.

21 MR. ERNST: Let's mark that as Exhibit 6.

22 THE WITNESS: Sorry. If you could give me a  
23 minute to grab it?

24 Okay. I got it.

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1 (Document marked as Exhibit 6 for  
2 identification.)

3 BY MR. ERNST:

4 Q And looking at Exhibit 6, there was  
5 diltiazem and digoxin present in his bloodstream after  
6 death, true?

7 A Yes.

8 Q But you concluded that his diltiazem was  
9 within the normal range for what you would expect?

10 A No, I don't know what to expect postmortem  
11 at that time.

12 What page are you referring to of my  
13 opinion?

14 Q I believe that you concluded on Page 4 that  
15 he was not toxic from diltiazem.

16 A I'm reading through that paragraph. One  
17 moment.

18 I'm not sure that I quite said that in that  
19 paragraph. I do believe that, though, but I don't  
20 think I said that in the paragraph there.

21 Q All right. Let's go through it.

22 You believe he was on a stable dose of both  
23 digoxin and diltiazem, true?

24 A Yes.

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1 Q And you do not believe that the diltiazem  
2 had any causative factor on his death, true?

3 A That's nowhere in there.

4 Q Well, I'm asking you if that's your opinion.

5 A Well, since his autopsy did not show an  
6 absolutely conclusive cause of his sudden death, there  
7 is a lot of different possibilities. So it depends on  
8 what you mean when you say do I believe with a hundred  
9 percent or 99 percent. He didn't have an absolute.  
10 Like if somebody has a big MI on their autopsy, then  
11 you know it is a big, fresh MI, and his autopsy did  
12 not show a completely definite foolproof diagnosis.

13 Q When you said "MI" you are talking about  
14 myocardial infarction?

15 A Yes. Sorry.

16 Q And for a layperson, that means a heart  
17 attack?

18 A Yes.

19 Q Now, I guess I'm asking your opinion today,  
20 which is do you believe that the diltiazem had any  
21 part in the cause of the death of Mr. McCornack?

22 A Within a reasonable certainty, no.

23 Q Now, Mr. McCornack's digoxin level, when  
24 tested by NMS Labs, was 3.6. Do you see that?

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1 A Yes.

2 Q And from a clinical standpoint, you have  
3 experience in prescribing and monitoring patients  
4 taking digoxin medication, true?

5 A Yes.

6 Q And from a clinical standpoint, the level  
7 that digoxin is acceptable in the literature is from  
8 .5 to 2.0 nanograms per milliliter?

9 MR. TABER: Objection.

10 THE WITNESS: I would say generally  
11 different labs have different normal ranges and  
12 different levels have come in and out of vogue. So I  
13 would say, roughly, what you are saying is true, but  
14 some labs say 2.2, some say 2.4, some say 1.8. So,  
15 roughly, I agree with you, but it really depends on  
16 the lab.

17 BY MR. ERNST:

18 Q So based on your testimony, what I hear you  
19 saying is that the therapeutic levels are from .5 to a  
20 range of 1.8 to 2.2; is that true?

21 MR. TABER: Objection.

22 THE WITNESS: Yes.

23 BY MR. ERNST:

24 Q Now, the digoxin level of Mr. McCornack,

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1 when tested, was 3.6, true?

2 A Yes.

3 Q Now, one of the articles that you read and  
4 reviewed actually traced back a postmortem blood level  
5 to a blood level at the time of death. Do you recall  
6 reading those articles in your list of literature?

7 A Yes.

8 Q And, as you sit here today, as a physician,  
9 when a blood sample is taken postmortem and a digoxin  
10 level is determined, that is information that you, as  
11 a physician, want to know, true?

12 MR. TABER: Objection.

13 THE WITNESS: No, I'm not a coroner. So as  
14 a clinician, no. I don't think I have ever recalled  
15 looking at postmortem digoxin levels in treating  
16 patients. So the answer is no.

17 BY MR. ERNST:

18 Q So from your standpoint, as a treater of  
19 live patients, digoxin level after death doesn't mean  
20 anything to you because you don't treat patients after  
21 they die?

22 A Right.

23 Q However, from a scientist's point of  
24 view -- and you are trained as a scientist, true?

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1           A       Yes.

2           Q       -- a blood level of 3.6 nanograms per  
3 milliliter of digoxin after death means something;  
4 doesn't it?

5                   MS. AHERN:  Objection.

6                   THE WITNESS:  What I found is it means  
7 something when it is low because the literature says  
8 it goes up after death.  So if it is low after death,  
9 that would mean, with almost clear certainty, that it  
10 would be low before death.  So I think the value does  
11 have meaning when it is low because it would very  
12 conclusively predict low levels before death.

13                   What the literature says when it is high is  
14 there is a whole range of how high it gets based on  
15 how long you waited, what part of the body.  So when  
16 it is high, I guess all I can say is he was taking  
17 at least some of his digoxin, and I can't prove that  
18 it was low, that his level was low during life, and  
19 that's probably all I can make of the value.

20 BY MR. ERNST:

21           Q       What you can state is that 3.6 nanograms per  
22 milliliter is above the therapeutic level, true?

23           A       In a live patient, yes.

24           Q       And following death, do you have an opinion

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1 as to whether or not, with a 3.6 nanograms per  
2 milliliter digoxin post death, do you have an opinion  
3 as to whether or not that's toxic or not toxic before  
4 death?

5 A No, because the literature, some papers say  
6 it could be ten times higher after death, some papers  
7 say it is two times higher. It depends how long you  
8 wait. It depends on where you pull it from.

9 Q Right.

10 A So the literature, it is very complicated.  
11 There is more variables than is in the literature.

12 Q So what I hear you saying is that this is  
13 not something that you usually look at, render  
14 opinions about, or work with, true?

15 MR. TABER: Objection.

16 MS. AHERN: Objection.

17 THE WITNESS: Usually, no.

18 BY MR. ERNST:

19 Q And this is something that you would defer  
20 to a coroner to look at because that is what they  
21 usually do? They determine cause of death, true?

22 MR. TABER: Objection.

23 THE WITNESS: I don't look at cause of  
24 death. I don't look at the coroner's report in my



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1 typical work. I was asked to give an opinion. So I  
2 looked at it because it was a piece of data in the  
3 material that I was asked to give an opinion about.

4 BY MR. ERNST:

5 Q Now, this piece of data does have meaning to  
6 you; doesn't it?

7 A Yes, it does, because it has good  
8 negative -- I don't know if you are familiar with the  
9 term negative predictive value, but what is true is  
10 every article says it goes up after death. So if his  
11 digoxin level was 1 after death, then I would be  
12 pretty sure it was less than 1 before death, which  
13 would have told me that he wasn't compliant with his  
14 medicines. So it has good negative predictive value  
15 for compliance.

16 Q Doctor, do you know what the burden of proof  
17 is in a civil case?

18 A No.

19 Q It is more likely true than not true.

20 A Okay.

21 Q Are you aware of that?

22 A No. I mean, I am now after you told me,  
23 yes.

24 Q Now, looking at one of the articles that you

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1 have, and I think we have marked it as Exhibit 6, the  
2 Vorpahl article, can you pull that out?

3 A Yes. Sure. One moment.

4 I got it.

5 MR. TABER: I thought that was Exhibit 4.

6 BY MR. ERNST:

7 Q Now, you have reviewed that, true?

8 A Yes.

9 Q And this article was attached to a number of  
10 other depositions that you reviewed, true?

11 A Correct.

12 Q Now, one of the things in the --

13 A Well, let me go back on that. I don't  
14 remember if it was attached to more than one  
15 deposition. I know it was attached to at least one  
16 deposition.

17 Q All right. If you go to Page 333 of the  
18 Vorpahl and Coe digoxin level --

19 A Give me one second. I have got to put my  
20 glasses on.

21 Q And you go to the summary?

22 A Okay.

23 Q Do you see that there was a mean postmortem  
24 value given to pre-death levels of digoxin?

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1 A A ratio, yes, I see.

2 Q A ratio?

3 A Yes, in the second sentence.

4 Q And, in fact, this was a study done of 27  
5 people where they knew the pre-death levels of digoxin  
6 and post-death levels of digoxin, true?

7 A True.

8 Q So they were able to actually measure what  
9 the digoxin level was before death and then after  
10 death, true?

11 A No. They actually didn't measure before  
12 death. They calculated using the Jelliffe equation.

13 I'm sorry, they measured sometime before  
14 death, and then they presumed the time immediately  
15 premortem based on a calculation.

16 Q And what calculation did they use, Doctor?

17 A I think it was a Jelliffe equation. I'm not  
18 sure.

19 Q Have you ever used that equation?

20 A It is referenced by Jelliffe, No. 13.

21 No, I haven't used that equation in my  
22 clinical work. I know of it through research and  
23 through writing, but I haven't used it.

24 Q And it is commonly relied upon?

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1           A       I actually don't know clinically if it is or  
2 it isn't because I'm not a pharmacist.

3           Q       So when Dr. Mason, the coroner, took blood  
4 from Mr. McCornack, he took it from an extremity,  
5 true?

6                   MR. TABER: Objection.

7                   THE WITNESS: That's questionable, because  
8 in the literature there is some classic locations, and  
9 he didn't take it from one of the classic locations.  
10 So it is probably some mix of an extremity and the  
11 heart because I don't think there is any -- give me  
12 one second.

13                   Yes, they didn't look at axillary draws in  
14 this study. So I would assume that some combination,  
15 some average between subclavian and femoral, because  
16 the subclavian is more proximal.

17 BY MR. ERNST:

18           Q       If you assume it is an average between  
19 subclavian -- just for the record, "subclavian" means  
20 what to you, Doctor?

21           A       Subclavian vein under the clavicle, right  
22 here (indicating).

23           Q       And the femoral vein means out of the leg,  
24 true?

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1           A       Actually, I don't know what the femoral vein  
2 means because the femoral vein is extremely long. So  
3 maybe there is a standard draw in autopsies that I'm  
4 not familiar with. The femoral vein is very long.

5           Q       You are aware that Dr. Mason, when he did  
6 the autopsy, he cut the vein in the shoulder and then  
7 pressed the blood out from the wrist down. Do you  
8 recall that?

9           A       That's what he said, yes.

10          Q       So that's why you think that, for purposes  
11 of this study, it would be an average between the  
12 subclavian vein and the femoral vein, true?

13          A       Yes.

14          Q       So if you --

15          A       It is in their study, not necessarily in our  
16 patients. In their study, I would assume, if they did  
17 axillaries, it would probably be some average between  
18 subclavian and femoral in their study.

19          Q       Well, wouldn't that turn out to be probably  
20 1.5, 2.5 if you did the average?

21          A       Sure. Their error is much, much larger than  
22 that, but that's close enough. They have a very large  
23 error there.

24          Q       All right. So if you took the average, if

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1 you took the 3.6 nanograms per milliliter, and you  
2 factored in for 1.5, using the Vorpahl article as a  
3 basis, what would be the pre-death level of digoxin in  
4 Mr. McCornack?

5 MR. TABER: Objection.

6 THE WITNESS: I didn't do that because  
7 Mr. McCornack wouldn't qualify for that study because  
8 his sample was drawn three days after, and that study  
9 was done on patients with an average of ten hours  
10 after, and the literature says the amount of time  
11 matters. So I don't think Mr. McCornack's premortem  
12 level can be calculated using this paper because, this  
13 paper, no one in this paper was remotely close to that  
14 time.

15 BY MR. ERNST:

16 Q Do you have any literature studies that say  
17 that 72 hours is different than 10 hours post death?

18 A Definitely not. I didn't find any study  
19 that specifically mentioned the two times.

20 Q All right. Well, I want you to compute,  
21 because you are a physician that would do something  
22 like this, please tell me if you assume a 3.6  
23 nanograms per milliliter post death, and you used a  
24 factor of 1.52 as an average between the subclavian

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1 vein and the femoral vein, please state for me what  
2 the level would be for Mr. McCornack using the numbers  
3 in the Vorpahl study.

4 MR. TABER: And I'm going to object because  
5 he just told you that that would not make any sense.  
6 So you are asking him to make three assumptions, none  
7 of which he agrees with. So I object and ask you to  
8 rephrase your question based on his prior answers.

9 MS. AHERN: Join.

10 MR. ERNST: You know, under Pretrial Order  
11 22, that's what we call a speaking objection, and I  
12 have tried to refrain from doing that. If you want to  
13 make an objection, you can. I'm asking him to do the  
14 computation.

15 MR. TABER: That's fine. You can do it,  
16 too. If you want to pull out a calculator, go ahead,  
17 but he just told you that doing what you are asking  
18 him to do would make no sense. So if you want us to  
19 divide two numbers, that's fine.

20 BY MR. ERNST:

21 Q Look at the Vorpahl study, and assuming that  
22 it is accurate for Mr. McCornack's blood sample, if  
23 you compute it back to the antemortem or pre-death  
24 level, wouldn't it be 2.5 or greater?

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1 MR. TABER: And I object because the  
2 assumption, he just told you, is completely false.

3 Go ahead.

4 THE WITNESS: I can try to get into detail  
5 on this.

6 So there is a couple of issues. If you look  
7 at their end for femoral, they actually have about 12  
8 points. So for funsies, I kind of looked at the  
9 numbers and looked at the range, and I can guarantee  
10 you that the standard deviation on those ratios is  
11 extremely large.

12 BY MR. ERNST:

13 Q I'm asking you for the number --

14 A You are asking me to do something that I  
15 don't think is true and I told you is not true. So I  
16 cannot put Mr. McCornack into the Vorpahl study.

17 So if you ask me a math question that has  
18 nothing to do with this deposition, I would say  
19 150 percent of 2.4 is 3.6, as a math problem, but I  
20 don't think it has anything to do with the particular  
21 patient we are talking about.

22 Q If you use the Vorpahl numbers that are  
23 contained in the study, and you compute it back to  
24 pre-death levels, even though you may not agree with



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1 it, Doctor, the level comes out to be 2.4, true?

2 MR. TABER: Objection, same basis. He  
3 already answered that.

4 THE WITNESS: And the answer is, yes, if I  
5 do a math problem that I don't agree with, I come up  
6 to the same conclusion every time of 2.4.

7 BY MR. ERNST:

8 Q And you already testified that 2.4 is above  
9 any level that any lab considers to be acceptable,  
10 true?

11 MR. TABER: Objection.

12 THE WITNESS: No, I didn't say that. I  
13 would venture a guess and say it is probably true, but  
14 I haven't done a review of all labs.

15 BY MR. ERNST:

16 Q Didn't you specifically state that the  
17 therapeutic level is between .5 and generally 2.0, and  
18 once in a while it goes as high as 2.2?

19 MR. TABER: Objection.

20 THE WITNESS: The answer is, yes, I said  
21 that, and that was an effort to try to get around the  
22 fact that you were giving an exact number, and I  
23 couldn't give you an exact number.

24 But now if you ask me to say that I

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1 specifically know that no lab goes up to 2.4, I really  
2 haven't done a review of lab ranges to say that.

3 BY MR. ERNST:

4 Q Will you acknowledge that 2.4 from a  
5 clinical standpoint would give you cause that it could  
6 be toxic?

7 MR. TABER: Objection.

8 THE WITNESS: The answer is, yes, in the  
9 live patient, I could be concerned with 2.4 if the  
10 patient had other symptoms.

11 BY MR. ERNST:

12 Q All right. So, in summary, if you use the  
13 Vorpahl study, and you average the subclavian vein  
14 with the femoral vein numbers, and you backtrack from  
15 the post-death level of 3.6, you will come up with  
16 2.4. Whether or not you agree or disagree with that,  
17 that is the number, true?

18 MR. TABER: Objection.

19 MS. AHERN: Objection.

20 MR. TABER: Multiple levels.

21 THE WITNESS: I would agree, in a patient  
22 who had blood drawn in the time frame of their study,  
23 that would fall into their result.

24 MR. ERNST: All right.

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1 BY MR. ERNST:

2 Q So from your point of view, as an expert in  
3 this case, a digoxin blood level of 3.6 nanograms per  
4 milliliter after death does have meaning, true?

5 MR. TABER: Objection. He answered that  
6 same question, Don, if you will recall, about 30  
7 minutes ago at least three times.

8 THE WITNESS: The answer is yes, and I will  
9 break it into a couple of pieces.

10 The fact that he had digoxin in his blood  
11 postmortem meant that he was taking digoxin. So it  
12 excludes the possibility that he wasn't taking his  
13 medicine at all, and because it wasn't extremely low,  
14 it suggests that he wasn't completely non-compliant  
15 with his medicine. So the answer is yes with those  
16 specific examples.

17 BY MR. ERNST:

18 Q Will you acknowledge that there have been a  
19 number of studies that have computed to be pre-death  
20 levels of digoxin from postmortem samples of blood?

21 A The answer is I don't know. I have seen  
22 this one study. The reason I looked at this study is  
23 because it was referenced by Dr. Gibson. Most of the  
24 studies I looked at said that you can't predict, that

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1 it is too unreliable.

2 I couldn't say that I did a complete and  
3 thorough literature search. So I couldn't guarantee  
4 that I might not have missed a study in rats or  
5 something. So I guess I'm not comfortable saying  
6 absolutely not, but the literature that I looked at,  
7 with the exception of this paper, suggested that you  
8 can't guess a premortem level based on an antemortem  
9 level because it is unreliable and it is always  
10 higher.

11 Q Looking at your report, Footnote 13, do you  
12 see that, Doctor?

13 A Yes. One moment.

14 Yes.

15 Q That's the Koren article; do you see that?

16 A Yes.

17 Q And let's go down to Item 15. That's the  
18 O'Sullivan article?

19 A Yes.

20 Q And, in fact, you quote an article here, and  
21 the title of it is Differences in Digoxin  
22 Concentrations Between Antemortem Serum and Femoral  
23 Postmortem Blood. Do you see that?

24 A What number is that?

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1 Q Item 15.

2 A Oh, differences in those four, yes,  
3 amiodarone, digoxin, flecainide and sotalol?

4 Q Right.

5 A Yes.

6 Q And you are aware that that is a study of  
7 one patient?

8 A Can you hold on a second? I want to get the  
9 article.

10 Q Sure.

11 A Too many articles.

12 Okay.

13 Q And, in fact, that article specifically  
14 works out a level of digoxin from a postmortem sample  
15 and concludes what it was before death; isn't that  
16 true?

17 A I actually only have the abstract with me.

18 Q You know, I see that you have listed it as  
19 Item 15. Is it your testimony that you just read the  
20 abstract and not the entire article?

21 A No. It is my testimony that I couldn't find  
22 the article now to print out again.

23 Q Well, doesn't the abstract state that, in  
24 fact, you can compute pre-death serum levels from

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1 postmortem blood?

2 A They are claiming that in this one patient.

3 Q Right.

4 They are claiming that, but that's an  
5 article that you cited, true?

6 A Okay. Yes.

7 Q And in that article, they say that you can  
8 conclude what pre-death levels were of digoxin from  
9 postmortem blood; isn't that true?

10 A They said that the high level would have  
11 suggested that it could have resulted from.

12 Q So there is a bunch of literature out there  
13 that says that you can conclude, from your own list of  
14 materials here, that, in fact, you can conclude what  
15 pre-death levels of digoxin were from a postmortem  
16 test, true?

17 MR. TABER: Can you repeat the question?

18 Or do you want to read it back?

19 (Record read.)

20 MR. TABER: Objection.

21 THE WITNESS: The answer is absolutely  
22 Vorpahl and Coe claim that they can predict a  
23 premortem level of digoxin before death. That's the  
24 point of their article.

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1 BY MR. ERNST:

2 Q Well, doesn't the article that you cite as  
3 Item 15, the O'Sullivan article, also claim that?

4 A Well, but that was a case study.

5 Q Right.

6 But the case study concluded that; didn't  
7 it?

8 MR. TABER: Objection.

9 THE WITNESS: They concluded that a  
10 postmortem level could suggest that the drug was  
11 associated with the death, with premortem.

12 BY MR. ERNST:

13 Q Let's go back and talk about the death of  
14 Mr. McCornack.

15 A Okay.

16 Q Now, you have concluded that Mr. McCornack  
17 died of -- I think what you called -- sudden cardiac  
18 death; is that true, or sudden cardiac arrest?

19 A Yes.

20 Q Why don't you explain sudden cardiac arrest  
21 to me as if I were a layperson.

22 A Let me get a paper. If you could give me  
23 one moment? Too many papers.

24 MR. TABER: Take your time, Doctor. We are

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1 in no rush here.

2 BY MR. ERNST:

3 Q I am looking at your report that you have  
4 opined, and on Page 3 you state: "The cause of his  
5 death was" --

6 A Do you want that answer?

7 Q I'm sorry?

8 A Is this another question or would you like  
9 an answer to the first question?

10 Q I would like an answer to the first  
11 question.

12 A So this is from something called Up-to-Date,  
13 which is an on-line referential material. It is  
14 No. 5.

15 Q Okay.

16 A And it says: "Sudden cardiac arrest and  
17 sudden cardiac death refer to the sudden cessation of  
18 cardiac activity with hemodynamic collapse typically  
19 due to sustained ventricular tachycardia/ventricular  
20 fibrillation." So that's the definition of sudden  
21 cardiac arrest.

22 Q So ventricular fibrillation to a layperson  
23 means that the lower half of the heart stops beating?

24 A It means it is vibrating and it can't



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1 sustain. It is not pumping. It is beating, but it is  
2 beating so fast that it can't pump.

3 Q And it is your opinion that he died of  
4 sudden cardiac arrest, true?

5 A Yes.

6 Q Now, let's talk about digoxin toxicity. Can  
7 digoxin toxicity cause sudden cardiac arrest?

8 A Yes. It is one of the side effects.

9 Q So when your opinion has concluded that  
10 Mr. McCornack died of sudden cardiac arrest, one of  
11 the things that could have caused the sudden cardiac  
12 arrest was digoxin toxicity, true?

13 MR. TABER: Are you asking him if that's his  
14 opinion?

15 MR. ERNST: I'm asking him generically --

16 MR. TABER: All right. Objection.

17 MR. ERNST: -- if digoxin toxicity can cause  
18 sudden cardiac arrest.

19 THE WITNESS: I thought that was the last  
20 question.

21 MR. TABER: Can or in this case? Which are  
22 we talking about?

23 MR. ERNST: I'm asking if it can.

24 THE WITNESS: That, as I recall, was two

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1 questions ago, and the answer is I said, yes, digoxin  
2 toxicity can cause sudden cardiac arrest.

3 MR. ERNST: All right.

4 BY MR. ERNST:

5 Q Now, one of the things that you have  
6 testified to is that digoxin can cause atrial  
7 fibrillation, true?

8 A No. Typically, digoxin is used to treat  
9 atrial fibrillation.

10 Q And if there is an excessive amount of  
11 digoxin, what happens to the fibrillation?

12 A Well, the atrium still fibrillates, so it is  
13 a little bit confusing. Digoxin doesn't actually  
14 affect atrial fibrillation. It affects the ventricles  
15 response to the atrial fibrillation.

16 Q Okay. Now, would you agree that digoxin  
17 toxicity causes bradycardia?

18 MR. TABER: Objection, overbroad.

19 THE WITNESS: Bradycardia is one of the side  
20 effects of digoxin toxicity.

21 BY MR. ERNST:

22 Q And, for the record, bradycardia is a  
23 slowing of the heart rate, true?

24 A Actually, it is a little bit confusing

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1 because bradycardia is typically defined as an  
2 abnormal slowing of the heart rate. So if you  
3 exercised, and your heart rate was high, and then you  
4 rested and it went down, people wouldn't call that  
5 bradycardia. So bradycardia is typically defined as a  
6 heart rate under 60.

7 Q It is an abnormally slow --

8 A Right. It is not a slowing of. It is an  
9 abnormally slow.

10 Q Now, Mr. McCornack, on the day of his death,  
11 complained of fatigue; do you recall that?

12 A No, I don't.

13 Could you tell me where that is?

14 Q Do you recall that Mr. McCornack complained  
15 of bloating?

16 A I recall that that was in his wife's  
17 deposition, yes.

18 Q Do you recall in his wife's deposition that  
19 he was tired?

20 A I don't.

21 Q Isn't it true that fatigue and  
22 gastrointestinal distress are symptomatology of  
23 digoxin toxicity?

24 MR. TABER: Objection, overbroad.

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1 THE WITNESS: The answer is yes. Digoxin  
2 toxicity has a whole variety of symptoms, cardiac and  
3 extracardiac, and fatigue and GI side effects are  
4 common symptoms of digoxin toxicity. Not always  
5 present. Sometimes present.

6 MR. ERNST: Right.

7 BY MR. ERNST:

8 Q Sometimes they are there and sometimes they  
9 are not?

10 A Right.

11 Q Now, as a treater -- and you do treat  
12 patients, true?

13 A Yes.

14 Q When a person claims they are bloated, is  
15 that sometimes referred to as gastrointestinal  
16 distress?

17 MR. TABER: Objection.

18 THE WITNESS: The answer is no. Medically,  
19 "distress" has a connotation of something that is  
20 relatively severe; respiratory distress,  
21 gastrointestinal distress. So I don't hear people  
22 using distress for something like bloating.

23 BY MR. ERNST:

24 Q All right. When a person says they are

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1 bloated, what does it mean to you as a clinician?

2 A They have an uncomfortable feeling in their  
3 stomach that they are associating with a feeling of  
4 being overfull from gas or food or something like  
5 that.

6 Q All right. Would you consider bloating a  
7 symptom of digoxin toxicity?

8 A The answer is I don't know because it is not  
9 typically described in the literature as bloating. So  
10 I actually don't know. That is not the way it is  
11 typically described. Typically it is described as  
12 anorexia, abdominal discomfort, nausea, but those are  
13 fairly vague terms.

14 Go ahead. I'm sorry?

15 Q I'm sorry. I didn't mean to interrupt you.

16 A That's okay.

17 Q Fatigue is a symptom of digoxin toxicity,  
18 true?

19 MR. TABER: Objection.

20 THE WITNESS: It can be, yes.

21 BY MR. ERNST:

22 Q Now, would you agree that the first signs of  
23 toxicity from digoxin are typically an abnormal  
24 slowing of the heart rate?

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1 MR. TABER: Objection, overbroad.

2 THE WITNESS: That is a very broad question  
3 because there is multiple indications for digoxin. So  
4 there is multiple goals for heart rate. So, for  
5 instance, if someone had a heart attack, and they were  
6 on a beta blocker and digoxin, and they were in atrial  
7 fibrillation, and their heart rate was attempted to be  
8 60, the first thing that would happen if they got  
9 digoxin toxic is the heart rate would get under 60.

10 If they have congestive heart failure and  
11 their heart rate naturally was 90, then it would take  
12 a lot of digoxin before it got under 60. So a lot  
13 would depend on the indication for the digoxin, the  
14 patient's medical conditions, and other medicines.

15 BY MR. ERNST:

16 Q What happens, Doctor, if you have an  
17 abnormally slow heart rate and your heart just slows  
18 to the point that it doesn't furnish enough blood to  
19 your brain? Does that, then, cause dizziness?

20 A That is also a broad question because people  
21 with very strong hearts, they can actually have a  
22 complete dissociation between their atrium and  
23 ventricle and go into what's called a ventricular  
24 escape, which is 40 beats a minute, and some of them

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1 actually feel fine. People with a very bad heart,  
2 they can actually die from a heart rate of 40.

3 So some people would be symptomatic. Some  
4 people could die. It really depends on the patient.

5 If you stand up real fast, you are going to  
6 get dizzy. So people that have bradycardia that is  
7 drug induced or toxin induced, they would certainly be  
8 dizzy when they stand up quickly or when they are  
9 moving around.

10 Q What if a person goes to bed and has  
11 bradycardia at night?

12 A It depends. A lot of people actually have  
13 bradycardia at night. When you are relaxed, your  
14 heart rate sometimes goes down. So it really depends.

15 Q Isn't it true that digoxin toxicity can lead  
16 to bradycardia?

17 A Yes, it can lead to bradycardia.

18 Q And if you assume that Mr. McCornack had  
19 bradycardia after he went to bed, his heart rate could  
20 have slowed, and he would have died of sudden cardiac  
21 arrest; isn't that true?

22 MR. TABER: Objection, speculation.

23 THE WITNESS: No. Actually, even making  
24 your assumptions, I wouldn't assume that because there

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1 was no evidence that his left ventricle didn't pump  
2 well. So I think a guy at his age, with a normally  
3 pumping left ventricle, could handle -- what happens  
4 is when your heart gets really slow, the ventricle  
5 takes over the pacemaker. So people's heart rates  
6 don't go down to zero.

7 All of a sudden the ventricle takes over,  
8 and it usually pumps around 35, 40, 45, and I think  
9 Mr. McCornack laying down, doing nothing, a heart rate  
10 of 40 or 35 or 45, he probably wouldn't have woke up.  
11 It wouldn't have bothered him.

12 So I actually don't think that bradycardia  
13 would have caused him to die in his sleep. In him.  
14 I'm not saying it couldn't be possible in some  
15 patients, but in him specifically.

16 BY MR. ERNST:

17 Q Well, what patients would it be possible in?  
18 What patients are we talking where you have  
19 bradycardia, and your heart slows to an extent, and  
20 you go unconscious and you die?

21 A Well, you assume --

22 Q Why can't that occur?

23 A -- you assume that you are going  
24 unconscious, and that's the part that doesn't



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1 necessarily happen. So the cardiac output that goes  
2 to the brain is the heart rate times the amount of  
3 blood that is pumped each beat. So if you have a  
4 heart that pumps a lot for each beat, some people can  
5 have more cardiac output at a heart rate of 40 than  
6 other people have at 80.

7           Like I used to play tennis. Bjorn Borg, his  
8 resting heart rate was in the 40s. When he was  
9 standing, walking around, his heart rate was in the  
10 40s because his heart was so strong that 40 times a  
11 good ejection fraction was more than enough blood  
12 flow.

13           The patient that could die is someone who  
14 has congestive heart failure, who is only pumping a  
15 small amount of blood each beat, and then when the  
16 beats go down, then they are in trouble and they could  
17 die. So it really depends on the patient.

18           Q       So you would want to look at the patient's  
19 history and actually have seen the patient before  
20 their death in order to reach those conclusions, true?

21           A       Well, you can get some of that from the  
22 autopsy because people that have like ischemic  
23 cardiomyopathy, they have very thin ventricles, and  
24 you can see heart attacks, prior heart attacks. So

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1 from an autopsy, you can actually get an idea about  
2 healthy function, but ideally --

3 Q But isn't it true --

4 A Go ahead.

5 Q Isn't it true that sudden cardiac arrest  
6 oftentimes shows no symptomatology in the heart itself  
7 upon autopsy?

8 A No signs in the heart, you mean, not  
9 symptoms? No findings; is that what you mean?

10 Q Right.

11 A Yes. Sometimes in sudden cardiac death,  
12 they do an autopsy, and they don't find anything.

13 Q Right.

14 And with digoxin toxicity that causes sudden  
15 cardiac arrest, they would not find anything; would  
16 they?

17 A It depends on what happened when the patient  
18 became digoxin toxic. If they had ischemic heart  
19 disease, and the heart rate got low, then they could  
20 have a heart attack, and you can see the heart attack,  
21 even though I still could blame that on digoxin. If  
22 they had a ventricular tach arrhythmia and died  
23 suddenly, then no. So it actually depends on what did  
24 the digoxin do premortem that caused the person to

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1 have sudden cardiac death.

2 Q Right.

3 And digoxin does cause ventricular  
4 tachycardia, true?

5 A It can, yes.

6 Q And if digoxin causes ventricular  
7 tachycardia, that ventricular tachycardia can occur  
8 after the bradycardia, true?

9 A Yes, it is possible.

10 Q And if that occurs where a person is toxic  
11 with digoxin, they have bradycardia or slowing of the  
12 heart rate, then they have ventricular tachycardia  
13 leading to sudden death, at the time of the autopsy  
14 there would be no findings in the heart, true?

15 A No, I wouldn't say there would be none, but  
16 there could be none, yes. I don't know if there  
17 wouldn't. It depends on the patient.

18 Q Now, in the autopsy of Mr. McCornack, were  
19 there findings?

20 A Yes.

21 Q And were there findings consistent with  
22 sudden cardiac arrest?

23 A What do you mean by "consistent" exactly?

24 Q Were they consistent with sudden cardiac

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1 arrest?

2 MR. TABER: He has asked you to define the  
3 word. I think if you would be so kind as to define  
4 what you mean by "consistent with", Don.

5 THE WITNESS: Do you mean that like  
6 medically or legally?

7 MR. ERNST: Medically.

8 THE WITNESS: Well, medically consistent  
9 means is something possible, and the answer is yes;  
10 but legally, I thought it was the  
11 more-than-a-50-percent thing.

12 MR. ERNST: Oh, you are going to the  
13 more-than-50-percent thing?

14 BY MR. ERNST:

15 Q So my next question is, Doctor, do you have  
16 an opinion as to whether or not Mr. McCornack had  
17 ventricular tachycardia?

18 A My opinion is that is my best reasonable  
19 guess.

20 Q All right. Now, just for the record, if you  
21 were to explain to a layperson what ventricular  
22 tachycardia is, what would you say?

23 A Ventricular tachycardia is when -- well,  
24 ventricular tachycardia is, by definition, when a beat

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1 comes from the ventricle. Normally, a beat comes from  
2 the atrium. It is when beats come from the ventricle,  
3 and they are coming fast, and the rate could be 150,  
4 200, something like that, and the ventricle actually  
5 cannot pump at that rate; and because it can't pump at  
6 that rate, although it is trying to beat, and there is  
7 impulses at that rate, it can't pump, and therefore  
8 there is no blood flow, and that could kill someone,  
9 and that's different than ventricular fibrillation  
10 where it is trying to beat so fast that it is just  
11 vibrating.

12 Q So we have already established that  
13 ventricular tachycardia can be used by digoxin  
14 toxicity, true?

15 A True.

16 Q And digoxin toxicity can also cause  
17 bradycardia, true?

18 A Yes.

19 Q And so in Mr. McCornack it is your opinion  
20 that ventricular tachycardia led to sudden cardiac  
21 arrest, true?

22 A That's my best guess, yes.

23 Q And that is entirely consistent with digoxin  
24 toxicity; isn't it, Doctor?

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1 MR. TABER: Objection.

2 THE WITNESS: There are a number of things  
3 that can cause -- the reason I'm not saying that is  
4 because we are talking about Mr. McCornack, and I  
5 don't think Mr. McCornack had digoxin toxicity.

6 So in Mr. McCornack the answer is no because  
7 I don't think he had digoxin toxicity. In a patient  
8 who is digoxin toxic, the answer is yes. I don't  
9 think he had digoxin toxicity.

10 So in a generality, the answer is yes. In  
11 him, the answer is no because I don't think he had  
12 digoxin toxicity.

13 BY MR. ERNST:

14 Q So let's just get right to it, Doctor: You  
15 don't think he had digoxin toxicity because of what?

16 A Because he didn't have anorexia. He seemed  
17 to not -- well, there is a couple of assumed things.  
18 Because the depositions tell me that he ate a couple  
19 good meals and was drinking, people who have anorexia  
20 and stomach discomfort tend not to drink alcohol.  
21 They can get it after they drink alcohol, but people  
22 tend not to drink alcohol when they have stomach  
23 discomfort and anorexia by definition.

24 He ate a good meal. He had a full day. He

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1 wasn't complaining of anything other than bloating per  
2 his wife. So that's one piece of evidence.

3           The second piece of evidence is I have no  
4 lab data to suggest that his digoxin level was high.  
5 He takes diltiazem and digoxin all the time together.  
6 So although diltiazem has been known to increase  
7 digoxin levels, he was on that for a long time with  
8 reasonable digoxin levels. His diltiazem level was  
9 extremely high, and I don't believe that he was  
10 diltiazem toxic at the time of his death, and his  
11 digoxin level was extremely high.

12           So if I thought that he was digoxin toxic, I  
13 would have to believe he was diltiazem toxic if I  
14 would believe those three-day postmortem lab values.

15           So I have no laboratory tests that suggest  
16 his level was high, I don't have any symptomatology  
17 that suggest his level was high, and therefore I don't  
18 believe he was toxic.

19           The last thing is I don't have any pills,  
20 according to the NMS, I don't have any pills that had  
21 a high level, and I consider him a fairly compliant  
22 patient. I don't think, from anything that I could  
23 see, that he was the kind of guy that would  
24 deliberately overdose or anything like that.

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1           So I have no reason to believe that he took  
2 too much digoxin. All his prior levels were okay. He  
3 didn't have symptomatology. So I don't think he was  
4 toxic.

5           Q     You are aware that there was a re-call for  
6 the digoxin that Mr. McCornack was taking, true?

7           MR. TABER:   Objection.

8           MS. AHERN:   Objection.

9           THE WITNESS: I actually recall that there  
10 was a re-call -- I'm actually assuming that he must  
11 have gotten some batch or lot or whatever associated  
12 with that or else we wouldn't be in court now, but  
13 that wasn't discussed with me. That's my assumption  
14 or else I don't think we would be here now.

15 BY MR. ERNST:

16          Q     Well, in fact, under other documents that  
17 you reviewed, didn't you review the CVS/Caremark  
18 letter to patients regarding the Digitek re-call of  
19 May 2008?

20          A     I believe so.

21          Q     All right. Let's pull that letter out,  
22 Doctor. Do you have that letter with you?

23          A     Yes.

24          Q     All right. Let's pull that out.



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1 Now, what is in that black book there,  
2 Doctor?

3 A This one here is medical records of  
4 Mr. McCornack from Lemm, Von Dollen, the two  
5 certificates of death, NMS Labs, the Caremark re-call  
6 letter, and the FDA statement.

7 MR. ERNST: All right. Let's look at the  
8 Caremark letter that you have reviewed there, and if  
9 you have a copy there, let's mark that as next in  
10 order, and I think that is No. 7.

11 MR. TABER: Let's take a break, first,  
12 though. We have been going an hour-and-a-half.

13 Five minutes?

14 MR. ERNST: Yes.

15 Doctor, if we take a break, I'm going to be  
16 asking you what you talked with the lawyer about  
17 during the break.

18 THE WITNESS: Okay. If he tells me I'm  
19 allowed to talk about it, then I will tell you what we  
20 said.

21 (Recess taken.)

22 (Document marked as Exhibit 7 for  
23 identification.)

24 MR. ERNST: Back on the record.

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1 BY MR. ERNST:

2 Q Now, Doctor, did you talk with your lawyer  
3 during the break?

4 A Yes.

5 Q What did you talk about?

6 MR. TABER: Objection, work product.

7 Don, you know you can't ask that.

8 MR. ERNST: I just did.

9 MR. TABER: Well, he can't answer that  
10 because it is work product.

11 BY MR. ERNST:

12 Q Did the lawyer give you any advice on how to  
13 answer questions, Doctor?

14 MR. TABER: Objection.

15 THE WITNESS: No.

16 BY MR. ERNST:

17 Q All right. If a patient comes into your  
18 office as a treating physician, and claims that they  
19 are fatigued and bloated, would that give you cause to  
20 believe that they would have a gastrointestinal issue?

21 A Yes and no. The fatigue is a very  
22 non-specific complaint. So I wouldn't necessarily tie  
23 fatigue in as a gastrointestinal complaint, but  
24 bloating is, by definition, a gastrointestinal

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1 symptom. So yes on that part.

2 Q A gastrointestinal symptom is an indication  
3 of digoxin toxicity; isn't it?

4 MR. TABER: Sorry. Objection.

5 THE WITNESS: I would go backwards on that  
6 and say some of them are.

7 BY MR. ERNST:

8 Q So some gastrointestinal issues are digoxin  
9 related, true?

10 MR. TABER: Objection.

11 THE WITNESS: Can be digoxin related, yes.

12 BY MR. ERNST:

13 Q And therefore, by definition, bloating can  
14 be a gastrointestinal issue and caused by digoxin  
15 toxicity, true?

16 MR. TABER: Objection.

17 MS. AHERN: Objection.

18 THE WITNESS: I actually have not read about  
19 it specifically, bloating per se.

20 BY MR. ERNST:

21 Q I'm not asking about the literature. I'm  
22 asking about you as a clinician.

23 If a person said they were bloated, that's a  
24 factor that you would consider as a gastrointestinal

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1 issue; isn't that true?

2 A The answer is, yes, I would consider  
3 bloating a gastrointestinal issue.

4 Q And gastrointestinal issues, as we have  
5 already talked about, can be caused by digoxin  
6 toxicity, true?

7 MR. TABER: Objection, overbroad.

8 THE WITNESS: Yes, gastrointestinal issues  
9 can be caused by digoxin toxicity.

10 BY MR. ERNST:

11 Q Now, let's go back and look at Exhibit 7.  
12 There is a re-call here of the digoxin; do you see  
13 that?

14 A Yes.

15 Q And that re-call was specifically sent to  
16 Mr. McCornack; do you see that?

17 A No.

18 Am I being stupid?

19 MR. TABER: Objection.

20 MR. ERNST: No.

21 BY MR. ERNST:

22 Q There was a letter that was specifically  
23 sent to Mr. McCornack, and I thought that was  
24 Exhibit 7. The letter was specifically addressed to

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1 Mr. McCornack saying that his medication had been  
2 re-called.

3 A No, I have a letter that says "Dear Plan  
4 Participant," and I wasn't advised that this was or  
5 wasn't sent to Mr. McCornack. I just thought it was a  
6 standard letter.

7 Q So, Doctor, are you telling me that, in all  
8 your opinions here that you have rendered, you didn't  
9 know that Mr. McCornack was sent a re-call letter that  
10 his medication may have contained twice the amount of  
11 active digoxin?

12 MR. TABER: Objection. And are you quoting  
13 something, Don? Because I don't --

14 THE WITNESS: Answer or not answer?

15 MR. TABER: -- because I don't see that  
16 here.

17 If you want him to look at the letter again,  
18 feel free, but I object to that characterization.

19 THE WITNESS: My answer is I assume that  
20 they received some type of notification of it or else  
21 we wouldn't be here in court, but all I had was this  
22 letter in front of me that wasn't specifically to him.  
23 But, yes, I assume that he got a letter, or his family  
24 did, whatever.

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1 BY MR. ERNST:

2 Q So this is very important, Doctor. Were you  
3 given a letter, a copy of a letter, that was addressed  
4 to Mr. McCornack saying that his medication had been  
5 re-called because it may have contained twice the  
6 normal strength?

7 MS. AHERN: Objection.

8 MR. TABER: Objection.

9 By the way, I object to your colloquy before  
10 your question, and I would ask you to rephrase and  
11 take out your own personal comments about what is  
12 important and what is not and stick to just asking  
13 questions.

14 MR. ERNST: That is a violation of Pretrial  
15 Order 22.

16 I will have my last question reread, and I  
17 would ask that you answer the question, Doctor.

18 THE WITNESS: The answer is, no, I wasn't  
19 given a letter that was specifically addressed to  
20 Mr. McCornack.

21 BY MR. ERNST:

22 Q That would be an important piece of  
23 information to you to know that his medication had  
24 actually been re-called; wouldn't it?

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1 MR. TABER: Objection.

2 THE WITNESS: It turns out no because I  
3 assumed that he was in that group or else there  
4 wouldn't be this lawsuit. I assumed that he was one  
5 of those people or else we wouldn't be here.

6 BY MR. ERNST:

7 Q But were you aware that his specific  
8 medication that he had in his household, that he was  
9 taking, was re-called?

10 MR. TABER: Objection.

11 MS. AHERN: Objection, asked and answered.

12 THE WITNESS: The answer is no. I assumed  
13 that, but I wasn't given direct information.

14 BY MR. ERNST:

15 Q Now, Doctor, digoxin has a narrow  
16 therapeutic range, true?

17 A Yes.

18 Q And for a layperson, that means that if the  
19 digoxin level is increased or decreased, it can have  
20 very significant health effects on the person taking  
21 the digoxin, true?

22 MR. TABER: Objection, overbroad.

23 THE WITNESS: It depends on what you mean by  
24 "very", but I think, yes, it has a narrow therapeutic

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1 index, which means that there is a more-than-typical,  
2 more-than-average variation by level in risk/benefit.

3 BY MR. ERNST:

4 Q Now, if Mr. McCornack had taken a pill at  
5 6:00 to 7:00 p.m. at night, with his evening meal, of  
6 digoxin, and it had been a double-strength pill, how  
7 long would it take for that pill to be absorbed into  
8 the body?

9 MR. TABER: Objection.

10 THE WITNESS: I'm not a hundred percent sure  
11 to be honest with you. I'm not a pharmacist. My  
12 recollection is a matter of hours by the way that it  
13 is dosed orally during loading.

14 BY MR. ERNST:

15 Q So four hours, five hours would be something  
16 that you would expect that that dosage, whatever it  
17 was, would be absorbed into the bloodstream, true?

18 A Something like that, yes, but I'm admitting  
19 that I'm not a pharmacist.

20 Q Right.

21 But you are a doctor that works with this  
22 drug all the time, true?

23 A Yes.

24 Q And you are -- okay.



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1           A       We dose the medication daily. So a lot of  
2       meds are dosed daily with a broad range of half lives  
3       and absorptions.

4           Q       By the way, when you give digoxin, do you  
5       give the generic type or do you give Lanoxin?

6           A       When I did give outpatient, I give generic.  
7       When I give inpatient, the pharmacy gives whatever  
8       they want to give.

9           Q       So circling back, Doctor, if Mr. McCornack  
10      had ingested a pill at 6:30, and it was double the  
11      strength of the normal dose -- and, by the way, his  
12      dose was .25?

13          A       Yes, .25 twice a day.

14          Q       So in the evening, if he had taken a .5  
15      pill, isn't it consistent that Mr. McCornack could  
16      have suffered bradycardia four to five hours after  
17      ingesting that pill?

18                 MR. TABER: Just object. Don, I'm sorry to  
19      interrupt, but you did say a .5 pill just now. Do you  
20      want to change that?

21                 MR. ERNST: If I did, I misspoke.

22                 Assume that he took -- no, I did say .5  
23      because his normal dose was .25. The re-call was for  
24      .5.

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1 I will have my last question re-read.

2 MR. TABER: Right, but you said .5 in the  
3 evening, that's how he took it. He took two .25 twice  
4 a day.

5 MR. ERNST: You are right. It would be .5.  
6 Okay.

7 MR. TABER: Okay. Sorry.

8 BY MR. ERNST:

9 Q Assume that Mr. McCornack took a  
10 double-strength pill in the evening, okay, Doctor?

11 A Yes.

12 Q Now, it is consistent that he would have  
13 suffered from bradycardia four to five hours after  
14 ingesting the pill? It is consistent; isn't that  
15 true?

16 MR. TABER: Objection.

17 THE WITNESS: It could be possible. We  
18 could actually try to figure it out from the -- I  
19 don't actually recall his heart rates during his  
20 medical visits, and I apologize.

21 If he was run on the borderline -- my  
22 recollection is he was very hard to control his heart  
23 rate, but if he was being run at borderline  
24 bradycardia, 65, 70, 62, then I think that that could

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1 be very possible. If he was running at 80 or 90, then  
2 I don't think it would be very possible.

3 So it really depends on his heart -- we  
4 could actually do better than guess a little bit, I  
5 think, by looking at his heart rate.

6 BY MR. ERNST:

7 Q And you look at his heart rate that he was  
8 at the last doctor visit, right?

9 A Yes, just to get an idea of -- not the last,  
10 just overall, was he very tightly controlled or was he  
11 not tightly controlled in terms of his heart rate.

12 Q Well, if, in fact, he suffered from  
13 bradycardia four hours after taking a double-strength  
14 pill, that bradycardia could lead to ventricular  
15 tachycardia; isn't that true?

16 MR. TABER: Objection.

17 MS. AHERN: Objection.

18 MR. TABER: Move to strike all the causation  
19 questions that are possibilities and therefore not  
20 admissible, rather than probabilities.

21 THE WITNESS: Answer?

22 MR. TABER: Yes.

23 THE WITNESS: I think you might be, and I  
24 might be wrong, and I apologize, Mr. Ernst, but you

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1 might be misconstruing one of my earlier comments.

2 I think you are putting the scheme together,  
3 bradycardia -- I don't mean it in a bad way, a scheme,  
4 but you are trying to sequence bradycardia and  
5 ventricular tach arrhythmia, which you put together. I  
6 didn't necessarily put it together.

7 I don't think bradycardia in the setting of  
8 digoxin toxicity makes you more prone to ventricular  
9 tachycardia than tachycardia in the setting of digoxin  
10 toxicity. So I'm not putting it together the same way  
11 you are. Is that okay?

12 BY MR. ERNST:

13 Q Would you acknowledge that, with the narrow  
14 therapeutic range of digoxin, that if Mr. McCornack  
15 ingested a double-strength pill that it could lead to  
16 ventricular tachycardia?

17 MR. TABER: Objection to the possibilities  
18 questions.

19 Go ahead.

20 MS. AHERN: Objection.

21 THE WITNESS: I would say that in terms of  
22 is it possible, anything is possible. Is it probable?  
23 One dose on a twice-a-day dosing, I think it takes  
24 four or five half lives of digoxin. Again, I would

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1 like to qualify that I'm not a pharmacist because you  
2 might get some pharmacists that say it takes three or  
3 seven, but it takes a lot of half lives to get to a  
4 steady state, and his digoxin levels weren't very  
5 high.

6 So I think one dose of a double, just like  
7 missing one dose or taking one dose of a double on a  
8 BID dosing schedule, doesn't do much to the level.

9 BY MR. ERNST:

10 Q Wasn't his digoxin level varied between 1.6  
11 and 1.8?

12 A My recollection is yes. If you want, I can  
13 look at all the medical reports if you are going to  
14 hold me to an exact number, but that's my recollection  
15 also.

16 Q Now, if, in fact -- well, let's go back and  
17 talk about bradycardia. Is it your opinion that the  
18 double dose of digoxin would cause bradycardia?

19 MR. TABER: Objection.

20 THE WITNESS: My opinion is in a patient who  
21 was borderline bradycardic to begin with, that if they  
22 took a double dose, they could get transiently  
23 bradycardic. So it really depends on what was the  
24 heart rate on the normal schedule.

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1           If the patient had a heart rate of 90, the  
2 answer would be no. If the patient had a heart rate  
3 of 64, 65, the answer would be very possibly.

4 BY MR. ERNST:

5           Q     So, Doctor, if a person suffers from  
6 bradycardia, the heart rate can actually slow enough  
7 to where they become unconscious; isn't that true?

8           A     The answer is bradycardia in general, yes,  
9 but in this setting typically not because this is a  
10 ventricular response to atrial fibrillation. So the  
11 heart rate doesn't jump from 60 to 30. It goes from  
12 60 to 55 to 50. Drugs that cause a complete heart  
13 block, you can jump from 70 to 40 or 35 just in one  
14 jump.

15                If he was suffering from bradycardia due to  
16 an overdosing of digoxin or high-digoxin level, his  
17 heart rate would just gradually go down, and people  
18 don't pass out from a heart rate of 50 or 55 or 48.

19           Q     Well --

20           A     Some settings, bradycardia could cause you  
21 to pass out.

22           Q     Isn't it true that Dr. Lemm opined that if  
23 he is sleeping, he would just go to sleep, his heart  
24 rate would slow, and he would eventually die?

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1 MR. TABER: Counsel, what page are you  
2 citing? Because we have his depo right here.

3 MR. ERNST: No, I'm asking you if you agree  
4 or disagree with that.

5 THE WITNESS: With that comment?

6 MR. TABER: All right. So if you are asking  
7 the witness if he agrees or disagrees with the  
8 document, you are required to show it to him. I'm  
9 invoking that requirement at this point.

10 If you want to rephrase your question,  
11 exclude the whole reference to the deposition, that's  
12 fine. Either way you want to go.

13 MR. ERNST: I will have my last question  
14 reread.

15 (Record read.)

16 MR. TABER: Objection, same basis, and if  
17 you are refusing to fulfill your obligation to give  
18 the witness the documents you are referencing, he is  
19 under no obligation to answer it.

20 MS. AHERN: Join.

21 MR. ERNST: Well, we are halfway across the  
22 country. So --

23 THE WITNESS: I would be happy to answer if  
24 we can find the quote from Dr. Lemm.

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1 MR. TABER: We have his deposition right  
2 here. If you simply have a page reference, we would  
3 be happy to direct the doctor to the page. I have got  
4 the transcript right here.

5 MR. ERNST: Well --

6 MR. TABER: By the way --

7 MR. ERNST: You know, he read the  
8 deposition, and I want you to assume that Dr. Lemm has  
9 testified to that, okay?

10 MR. TABER: All right --

11 MR. ERNST: I want you to just assume that  
12 he did.

13 Do you agree or disagree with it?

14 MR. TABER: No, we are not going to assume  
15 that you are quoting his testimony accurately, and we  
16 are not required to. The rules are there for a  
17 reason, and we are invoking our right to see the  
18 document you are referencing.

19 If you want to take out the reference to  
20 Dr. Lemm and rephrase your question as a hypothetical,  
21 fine, but you can't quote a document and pretend you  
22 are not quoting it. It is up to you.

23 MR. ERNST: No, it is up to you. Are you  
24 instructing him not to answer the question?



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1 MR. TABER: I'm instructing you that you are  
2 under an obligation to show us the document if you are  
3 going to quote it and ask him if he agrees or  
4 disagrees with it.

5 So it is up to you to either rephrase or you  
6 are not going to get an answer to the question because  
7 he is under no obligation to answer it.

8 MR. ERNST: No, I tell you what: We are  
9 going to go off the record for five minutes, okay?

10 MR. TABER: Okay.

11 MR. ERNST: We are going to go off the  
12 record for five minutes.

13 MR. TABER: Sure.

14 (Recess taken.)

15 MR. ERNST: Back on the record.

16 I disagree with that. Do you have a  
17 specific authority that I have to cite a page and  
18 number? And if you do, please give it to me on the  
19 record.

20 MR. TABER: Yes, it is in the Federal Rules  
21 of Evidence.

22 MR. ERNST: Where?

23 MR. TABER: I didn't bring my rule book with  
24 me, but if you really want to stop the deposition --

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1 MR. ERNST: Let me tell you that you are  
2 violating Rule 22 consistently giving speaking  
3 objections and instructing the witness. So we are  
4 either going to call the magistrate or you are going  
5 to stick to the objection and that's it. What is it  
6 going to be?

7 MR. TABER: I'm sticking to my objection.

8 MR. ERNST: If you are going to stick to the  
9 objection, then you may say the word "objection", and  
10 any other speaking objections that you make, if the  
11 next one happens, I'm going to adjourn the deposition  
12 and were are going to call the magistrate; am I clear?

13 MR. TABER: You are coming through clear. I  
14 respectfully disagree with your elevated tone and  
15 threats that you are sending now, but it is your  
16 deposition. Please go forward, but I am going to hold  
17 you to the rules.

18 MR. ERNST: No, I'm going to hold you to the  
19 rules.

20 MR. TABER: I'm fine with that, and if I  
21 have interrupted, I do apologize.

22 BY MR. ERNST:

23 Q Doctor, I want you to assume that Dr. Lemm  
24 testified that Mr. McCornack, if he had a double dose

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1 of digoxin, would simply go to sleep, his heart rate  
2 would slow, he would not get enough oxygen to his  
3 brain, and he would die. Do you disagree with that?

4 MR. TABER: No. Objection, and we are not  
5 going to answer that. It is the third time you asked  
6 it. The objection stands.

7 BY MR. ERNST:

8 Q I want you to assume that Mr. McCornack's  
9 heart rate -- or he took a double dose of digoxin at  
10 6:00 p.m. At midnight, or 11:30, 12:00 o'clock, he  
11 went to sleep. His heart rate slowed and he died.

12 A Okay.

13 Q Do you disagree with that?

14 MR. TABER: Objection. Go ahead.

15 THE WITNESS: The answer is I disagree with  
16 that.

17 BY MR. ERNST:

18 Q Do you disagree with that? That can be  
19 answered yes or no.

20 A Yes, I disagree with it because what would  
21 happen is his heart rate would go down, eventually his  
22 ventricle would take over, and he would either have a  
23 junctional or a ventricular escape rhythm that would  
24 maintain blood flow, and because on autopsy it looked

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1 like his heart probably pumped okay, I think that  
2 lower heart rate, with a normal pump, would have been  
3 sufficient to keep him alive, especially while he was  
4 doing nothing in bed.

5 So my understanding of digoxin toxicity is  
6 the heart rate just doesn't go down from 80 to zero.  
7 There is other mechanisms that come into play.

8 Q So please state for me how many autopsies  
9 you have performed.

10 A Zero.

11 Q And please state for me how many causes of  
12 death you have determined from a person dying of a  
13 cardiac issue.

14 A I actually don't recall because I have to  
15 give cause of death on my patients when they die if  
16 the coroner doesn't want to take them. So it actually  
17 happens relatively infrequently, but I don't know the  
18 exact number. When the case doesn't go to the  
19 coroner, they ask the primary care doctor or the  
20 service doctor to give the cause of death. So it  
21 actually doesn't happen frequently.

22 Q When the case does go to the coroner, would  
23 you acknowledge that the coroner has additional  
24 information that you, as a person reviewing the

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1 records, does not have?

2 A Yes. They have the autopsy.

3 Q Right.

4 And the autopsy gives them additional  
5 information that you, as a clinician, and as you sit  
6 here today, reviewing the records, reviewing the  
7 materials, simply does not have because you didn't see  
8 the body and the heart?

9 MR. TABER: Objection.

10 THE WITNESS: It depends on if I got to read  
11 their report or not and how well they read -- at the  
12 time that I'm asked to give a cause of death, the  
13 autopsies are not done. So I don't have the body, nor  
14 the findings. So the answer is, yes, once they do the  
15 autopsy, they know a lot more than I do.

16 BY MR. ERNST:

17 Q And, in fact, following an autopsy, in your  
18 career, Doctor, have you ever disagreed with the  
19 coroner's cause of death?

20 A No, not a coroner's -- well, you asked a  
21 double question because a lot of the autopsies are  
22 done by our pathologist because we are a teaching  
23 hospital. So I don't know if you want to state that  
24 how you want to state that, but I often disagree with

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1 the cause of death from our pathologist, but when a  
2 case goes to the coroner, once my patient's dead, I  
3 have nothing to do with it. So I wouldn't agree or  
4 disagree. But I do disagree with our pathologist's  
5 cause of death sometimes.

6 Q So you disagree with the pathology cause of  
7 death on a number of occasions?

8 A On a number of occasions --

9 Q On autopsy?

10 A -- that died in my hospital where the  
11 autopsy was done in my hospital.

12 Q Did any of those involve digoxin toxicity?

13 A I actually don't recall.

14 Q You mention in your report that  
15 Mr. McCornack had multiple risk factors for sudden  
16 cardiac death, true?

17 A Yes.

18 Q And is it accurate to state that one of the  
19 risk factors that Mr. McCornack had for sudden cardiac  
20 death was digoxin toxicity?

21 A Yes, that's on my list.

22 MR. TABER: Hold on. Read that back.

23 (Record read.)

24 THE WITNESS: No. The answer is no. I

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1 apologize. I misunderstood.

2 I did say that digoxin, period, was a risk  
3 factor. I missed the toxicity. Just the fact that he  
4 was on digoxin itself is known as a risk factor.

5 MR. TABER: And just let me interject for a  
6 minute here: Whether it be because of the delay on  
7 the video conferencing or whatever, the witness and  
8 the questioner are talking over each other, and I  
9 would ask both Dr. Galanter and Mr. Ernst if you would  
10 please not interrupt each other so that we get a clean  
11 record, because there is a delay, because I can see  
12 your lips move, and you're both talking over each  
13 other, and that's going to make a bad record.

14 THE WITNESS: Sorry.

15 MR. TABER: It is all right.

16 BY MR. ERNST:

17 Q Digoxin is a risk factor in sudden cardiac  
18 death, true?

19 A Yes.

20 Q And digoxin toxicity is a risk factor in  
21 sudden cardiac death, true?

22 MR. TABER: In this case or in general?

23 MR. ERNST: You know, I'm done here. I  
24 think that we should call the magistrate. You are

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1 making speaking objections. So I recommend that we do  
2 a conference call to the magistrate now. Are you  
3 willing to do that?

4 MR. TABER: It is up to you. It is fine  
5 with me.

6 MR. ERNST: I would like to have my last  
7 question reread.

8 (Record read.)

9 THE WITNESS: Yes.

10 BY MR. ERNST:

11 Q Now, in this case, you are aware that  
12 Mr. McCornack received a re-call notice for a  
13 double-strength medication of digoxin, true?

14 MR. TABER: Objection.

15 THE WITNESS: The re-call notice, let me  
16 look at it again. It just said that it was a batch or  
17 something. I'm sorry, Mr. Ernst. Let me look at the  
18 letter again.

19 Where did I put that?

20 Oh, sorry. This letter that I have, which  
21 is Exhibit 7, it actually refers to a prior letter.  
22 It says: "You recently received a letter from CVS  
23 Caremark about the Digitek." So I don't, as we  
24 discussed before, I actually don't have a letter that



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1 was to him.

2 BY MR. ERNST:

3 Q Have you reviewed Dr. Heard's deposition?

4 A Yes.

5 Q And do you have that deposition with you  
6 there?

7 A Yes, I do.

8 Q I want you to go to Dr. Heard's deposition.

9 A Okay. Just give me one moment.

10 Q And go to the exhibits. Do you have the  
11 exhibits?

12 A I don't have it yet, Mr. Ernst.

13 MR. TABER: And I think, Don, I think you  
14 are talking about the --

15 THE WITNESS: Yes, I apologize. I don't  
16 have his deposition. It is not available yet. I have  
17 his opinion.

18 BY MR. ERNST:

19 Q Do you have Dr. Mason's deposition with  
20 exhibits?

21 A I don't know what "with exhibits" means, but  
22 I do have his deposition, and I can get it.

23 Q Why don't you pull his deposition and see if  
24 there are exhibits attached.

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1 THE WITNESS: Is this the exhibits or no?

2 MR. TABER: Yes, I think it is.

3 THE WITNESS: Yes, I have it.

4 BY MR. ERNST:

5 Q All right. I want you to look at the  
6 exhibits to Dr. Mason's deposition, and there is a  
7 letter from Caremark in there.

8 A Do you know which --

9 Q If you look at --

10 A Do you know which one that is?

11 Q I think it is Exhibit 14, but I'm not sure.

12 A Okay. Thank you.

13 MR. TABER: There should be an index to the  
14 exhibits as well.

15 MR. ERNST: Yes. If you will check the  
16 index, you can get the actual -- I apologize that I'm  
17 not there. We are doing video conferencing here.

18 THE WITNESS: That's okay. I'm just  
19 apologizing for being slow.

20 Is that the last page or the beginning?

21 MR. TABER: The index is in the very  
22 beginning of the transcript.

23 THE WITNESS: Letter. Letter.

24 I actually don't see it in the index. 14

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1 was a letter from you.

2 Do you see it?

3 MR. TABER: No.

4 THE WITNESS: You know what, Mr. Ernst? I  
5 don't see it, and I apologize. I checked 14, and that  
6 was from you, and 15 was from you. 13 says  
7 environmental. Maybe that's the FDA.

8 MR. ERNST: That's all right.

9 Let's go off the record a minute.

10 (Recess taken.)

11 BY MR. ERNST:

12 Q Do you have the Lemm deposition there?

13 A I'm sure I do, yes.

14 Q I want you to look at, I think it is,  
15 Exhibit 6-14.

16 A Got it.

17 Q It is a letter addressed to Daniel  
18 McCornack; isn't it?

19 A Yes, it is.

20 Q You don't recall reading this; do you?

21 A No. This is one of the first pieces that I  
22 got probably two-and-a-half years ago.

23 Q So, in fact, when you wrote your report, you  
24 didn't know that Mr. McCornack had received a letter

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1 stating that there might be twice the approved level  
2 of active ingredient in the pill; did you?

3 MR. TABER: Objection.

4 THE WITNESS: I think I answered this  
5 before. I assume so because I assumed that's why this  
6 was a legal issue.

7 BY MR. ERNST:

8 Q You did not know at the time; did you?

9 A I did not know for a fact that he had  
10 received this letter. I assumed that he had received  
11 the letter because I had the other letter that was  
12 just general "Dear Participant". So I would assume  
13 that he was a participant. I'm talking about No. 7.

14 Q Now, would you agree with me that, in fact,  
15 looking at this letter, that, in fact, double-strength  
16 pills could induce digoxin toxicity?

17 MR. TABER: Objection.

18 MS. AHERN: Objection.

19 THE WITNESS: I have to -- it was old. So  
20 if you give me a moment, I will look at it, and then  
21 answer your question.

22 My answer would be no because it doesn't  
23 talk anything about his indication or his present  
24 dosage. So if he had CHF, his dose would have been

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1 low, and doubling it wouldn't have put him into toxic  
2 range; and if he was high in his dosing, it could have  
3 put him into toxic range. So I don't think his letter  
4 specifically addresses his dosing or indications.

5 BY MR. ERNST:

6 Q Go to Exhibit 7.

7 A Okay.

8 Oh, sorry, that is a different thing.

9 MR. TABER: Take your time.

10 BY MR. ERNST:

11 Q Does Exhibit 7 define the risks, Doctor?

12 A Give me one second. I'm just moving to a  
13 different paper.

14 I don't see anything about risks here. Am I  
15 missing something?

16 Q In truth and fact, double-strength pills can  
17 lead to digoxin toxicity and death; isn't that true?

18 MR. TABER: Objection.

19 THE WITNESS: In Exhibit 7?

20 MR. ERNST: I'm just asking generically.

21 I will have my last question reread.

22 THE WITNESS: I'm sorry. Sorry about that.

23 (Record read.)

24 MR. TABER: Objection, false hypothesis.

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1 Go ahead.

2 THE WITNESS: The answer is, yes, if a  
3 person were to persistently take double-strength  
4 pills, it could lead to toxicity and death.

5 BY MR. ERNST:

6 Q Going to Page 93 of the Lemm deposition,  
7 Line 7 --

8 MR. TABER: Did you say 83?

9 THE WITNESS: 93 I think he said.

10 MR. ERNST: 93.

11 MR. TABER: Okay. Thanks.

12 THE WITNESS: And what line, Mr. Ernst?

13 MR. ERNST: Line 7 through 13.

14 THE WITNESS: Okay. Give me a moment.

15 BY MR. ERNST:

16 Q Dr. Lemm concludes -- Dr. Lemm is the  
17 treating practitioner; you are aware of that?

18 A One of them, yes.

19 Q And Dr. Lemm states that:

20 "Sometimes, if one is asleep and suffering  
21 from digoxin toxicity, their heart could just slow  
22 to a level where this would become -- they would  
23 pass out and eventually die?"

24 And the answer is:

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1 "A. Yes.

2 "Q. Do you believe that's what happened  
3 here?

4 "A. I think so."

5 A So what's the question?

6 Q Do you disagree with that?

7 A Well, I agree that that's there accurately,  
8 but I disagree with his conclusion.

9 Q Right.

10 You believe that Dr. Lemm, as a treating  
11 physician, has a reasonable basis for concluding that;  
12 don't you?

13 A I disagree with his conclusion. So I'm not  
14 sure if his basis or his logic is wrong, but I can't  
15 tell which.

16 Q Right.

17 So you are aware that the treating physician  
18 of Mr. McCornack, the cardiologist, and the coroner  
19 all concluded that Mr. McCornack died of digoxin  
20 toxicity? You are aware of that, right?

21 MR. TABER: Objection, same basis as before.

22 MS. AHERN: Objection.

23 THE WITNESS: Actually, in this sentence, I  
24 agree that Dr. Lemm is saying that this could happen,

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1 and I know Dr. Mason and I agree that was his  
2 conclusion on his amended thing. I don't recall what  
3 the cardiologist said because I don't think they were  
4 asked -- I don't recall that they made a final  
5 statement.

6 BY MR. ERNST:

7 Q Is it significant to you that every person  
8 that has actually seen Mr. McCornack or seen his body  
9 has concluded that he died of digoxin toxicity?

10 MR. TABER: Objection.

11 MR. ERNST: Is that important to you?

12 MR. TABER: Objection.

13 THE WITNESS: I think you are saying  
14 "everyone" as multiple people. I think Dr. Mason was  
15 the only one that saw his body, and it is somewhat  
16 disturbing to me that Dr. Mason changed his mind very  
17 far apart. So I somewhat discount Dr. Mason's opinion  
18 because I don't think he was very confident about his  
19 opinion.

20 BY MR. ERNST:

21 Q All right. Doctor, let's go back and  
22 summarize some of the things that you have said.

23 You have acknowledged that digoxin toxicity  
24 can cause sudden cardiac death, true?



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1 MR. TABER: Okay. Hold on.

2 MS. AHERN: Objection.

3 MR. TABER: You can't repeat your questions.  
4 When you say "summarize", if you are going to ask new  
5 questions, please go ahead; but if you are going to  
6 ask the same questions you already asked, I object,  
7 and I would respectfully ask you not to repeat because  
8 we will not summarize the same questions we have asked  
9 already.

10 MR. ERNST: If you have an objection, you  
11 can place it on the record.

12 MR. TABER: I just did.

13 MR. ERNST: I will have my last question  
14 reread.

15 (Record read.)

16 THE WITNESS: That's a two-part question.  
17 One is do I remember saying it and one is is it true.  
18 So do I remember saying it? I'm not a hundred percent  
19 sure, but the answer is, yes, I do say that digoxin  
20 toxicity can cause sudden cardiac arrest.

21 BY MR. ERNST:

22 Q You are aware --

23 MR. TABER: He is not done.

24 MR. ERNST: I'm going to ask another

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1 question.

2 MR. TABER: No, you cut him off, and we both  
3 agreed not to do that. So let him, please, finish his  
4 answer, and he will let you finish your question. I  
5 apologize for interrupting.

6 Go ahead.

7 MR. ERNST: I thought he was finished.

8 THE WITNESS: It is okay.

9 My only statement was that I don't have the  
10 transcript in front of me, and I don't want to be  
11 caught on did I/didn't I say anything. So I will  
12 restate my opinion, I guess, if my counsel lets me,  
13 but I don't want to have to say whether or not I said  
14 something or not, because if it has to be accurate,  
15 then I have to wait for the court reporter to go back  
16 and look at it, and it will be very time consuming.

17 So the answer is, yes, I agree that digoxin  
18 toxicity can cause sudden cardiac arrest. What I'm  
19 not so sure about is whether I said that or not  
20 before, and if I have to know exactly, that means I am  
21 going to have to ask her to go back and look at  
22 everything I have said. I'm not trying to be  
23 difficult. Does that make sense?

24 MR. ERNST: Sure.

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1 BY MR. ERNST:

2 Q So one of the things that I want to make  
3 sure is just make sure we have a clean record. There  
4 is no trick questions here.

5 I just want it clear, in a question and  
6 answer, that digoxin toxicity can cause sudden cardiac  
7 arrest.

8 MR. TABER: Objection, asked and answered  
9 at least five times. Please ask a new question,  
10 something that we haven't already covered in the last  
11 three hours.

12 MR. ERNST: Actually, it has been two hours  
13 and 15 minutes.

14 MR. TABER: Sorry.

15 MR. ERNST: Not counting breaks.

16 BY MR. ERNST:

17 Q Now, you mentioned that there was pulmonary  
18 edema that was a finding on autopsy. Do you see that?

19 A Actually, I didn't mention that. That I  
20 know that we didn't talk about. So I did not mention  
21 that he had pulmonary edema.

22 Q What significance is pulmonary edema to you?

23 A It really depends if it is a -- pulmonary  
24 edema to me, as a doctor clinically, there is a lot of

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1 causes to pulmonary edema, and it helps to make a  
2 differential diagnosis for a lot of different things,  
3 and I don't want to get into that.

4 Postmortem, and I'm not an expert, it seems  
5 like other people were claiming that this is a finding  
6 that just occurs sometimes, and you find it after  
7 people die. So it is not something that I read about,  
8 but I can talk a long time about pulmonary edema in  
9 the live patient.

10 Q Here is my question: Is pulmonary edema a  
11 factor in your opinions?

12 A No.

13 Q It is true; isn't it, that pulmonary edema  
14 can be related to sudden death, sudden cardiac arrest?

15 A The answer is I'm not sure, but I don't  
16 think so because I think that the person dies  
17 immediately, and the pulmonary edema is a hemodynamic  
18 mechanical thing that would take a little while to  
19 occur. So I think the pulmonary edema would come  
20 after death. So death is defined when the brain -- I  
21 think the brain would cease to get oxygen prior to the  
22 development of the pulmonary edema. If someone has  
23 near death, then they might develop pulmonary edema  
24 after the near-death episode.

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1 Q Can pulmonary edema be caused by digoxin  
2 toxicity?

3 A It could be caused by certain parts of  
4 digoxin toxicity.

5 Q And if you look at Page 3 of your report,  
6 the second paragraph from the end, you state, and I  
7 quote: "His autopsy did show pulmonary edema, but  
8 this may have been related to his sudden cardiac  
9 arrest or developed postmortem."

10 A Yes.

11 Q So is it your testimony now that pulmonary  
12 edema is related to sudden cardiac arrest?

13 A I think I'm having a hard time. It depends  
14 on if it is a live patient or it is in a dead patient.  
15 So my answer was you might develop pulmonary edema  
16 after you die of sudden cardiac arrest. So it really  
17 depends on if you are talking about in the live  
18 patient or in the dead patient. So my answer is in  
19 the dead patient, on autopsy, you could find pulmonary  
20 edema because of pump failure from ventricular  
21 arrhythmia.

22 Q Doctor, you have rendered opinions here  
23 today about the cause of death, and my question to you  
24 is that sudden cardiac arrest, and the autopsy that

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1 was performed, and the evidence and information that  
2 you have, based upon the findings at death by the  
3 coroner, are consistent with a number of things, true?

4 MR. TABER: Objection.

5 THE WITNESS: On a medical definition of  
6 consistent, yes. I can't say with a high probability  
7 of those things, but by the medical definition of  
8 consistent.

9 BY MR. ERNST:

10 Q And using the medical definition of  
11 consistent, one of those things that the autopsy  
12 findings are consistent with is digoxin toxicity;  
13 isn't that true?

14 MR. TABER: Objection.

15 MS. AHERN: Objection.

16 THE WITNESS: The answer is the autopsy  
17 findings without information premortem that was in the  
18 rest of the record. So if I was just doing the  
19 autopsy, and didn't have any other information about  
20 the patient, I would say, yes, but in this particular  
21 patient, based on their history premortem from the  
22 depositions and record, I would say no.

23 BY MR. ERNST:

24 Q So did you give any weight at all to the

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1 fact that the medication that Mr. McCornack took on  
2 the day of his death was re-called because it may have  
3 been a double dose?

4 MR. TABER: Objection.

5 THE WITNESS: The answer is no because it  
6 was tested, because his pills were tested, and none of  
7 them were double dose.

8 BY MR. ERNST:

9 Q Well, you are aware that the double dose  
10 wasn't consistent throughout the pills that were  
11 produced by Actavis; aren't you?

12 A Not in the factory, but since I don't know  
13 what actually got into his bottle -- I don't know if  
14 it actually got out of the factory. I don't know how  
15 it would have come in the bottle, like all of them  
16 together or half of them. I don't know. I haven't  
17 read anything about it.

18 Q Well, you are aware -- I'm sorry.

19 You are aware that the re-call was because  
20 there were random pills out there that might have been  
21 double dose; aren't you?

22 MR. TABER: Wait. Don, you know ethically,  
23 as a lawyer, that that is absolutely false. So please  
24 rephrase the question. You have no basis to say that,

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1 and do not try to trick this doctor with something  
2 like that.

3 MR. ERNST: All right. We are adjourning  
4 the deposition. I'm calling the magistrate. You have  
5 violated Rule 22 consistently, and I'm adjourning this  
6 deposition. I reserve the right to reset it. I'm  
7 going to make a motion against the kind of  
8 interruptions that you have made.

9 Do you want to make the call right now  
10 jointly? I'm just going to adjourn the deposition at  
11 this particular point in time, and I will make the  
12 appropriate motion.

13 I'm tired of this.

14 Doctor, we have been going for two hours and  
15 20 minutes. I have been consistently interrupted with  
16 violations of Rule 22, and it is a violation. I'm  
17 going to adjourn this deposition. I'm going to ask  
18 that the portion of the deposition be typed up.

19 You will be given an opportunity to read and  
20 correct any portion of the deposition that you have at  
21 this time, and I'm going to be making a motion to the  
22 Court to take another session of your deposition,  
23 okay?

24 MR. TABER: No. Let me say my piece. May I



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1 now respond, since this is directed at me and not him?

2 The Doctor is here --

3 MR. ERNST: The fact is I'm adjourning this  
4 deposition, and you may place anything on the record  
5 that you wish.

6 MR. TABER: Okay. I will do that right now.  
7 It is 12:30 Central Time. The Doctor, at your  
8 request, has set aside the entire day to answer  
9 questions. He has done so. If you adjourn this  
10 deposition, it is your choice, but you do not get a  
11 second crack at him.

12 He is here and ready, willing and able to  
13 answer any appropriate questions that he is asked, and  
14 we are not agreeing, by any means, to a second  
15 deposition and will not produce him willingly for a  
16 second deposition.

17 It is your call. If you want to walk away,  
18 it is your choice, but this is your chance.

19 MR. ERNST: The point is that you  
20 continually are interrupting, coaching, and making  
21 statements that are inappropriate in violation of  
22 Rule 22. I'm adjourning this deposition. I'm going  
23 to be making a motion to the Court.

24 Doctor, I will pay you for your time. If

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1 you submit a bill to your counsel, we will pay it  
2 promptly, okay? And we reserve the right to have this  
3 deposition.

4 Again, I didn't expect it to go as long as  
5 it did, but I refuse to continue with the kind of  
6 interruptions that we have had.

7 Thank you very much. Have a good day.

8 MR. TABER: And before the deposition is off  
9 the record, let me say that if you want to call the  
10 magistrate right now, I'm absolutely comfortable with  
11 that, ready, willing and able, and I'm very  
12 comfortable with the appropriateness of the objections  
13 that have been made.

14 If you disagree, it is at your own peril  
15 because we have plenty of time, and we are ready to  
16 continue, and if you choose not to, that's up to you.

17 If you have specific questions that you  
18 believe he has not answered somehow because of my  
19 interruptions, then I would suggest that you ask him  
20 right now while he is here and able.

21 MR. ERNST: Do you have the number for the  
22 magistrate, counsel?

23 MR. TABER: I don't, but if you want to call  
24 her, go right ahead. You have got a computer right in

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1 front of you. Just check the Southern District of  
2 West Virginia, and I'm sure there is a number right  
3 there.

4 I know that Judge Stanley has taken calls in  
5 depositions before and has said that she would very  
6 much be able to do that.

7 (Brief pause.)

8 MR. TABER: Do you want the court reporter  
9 to keep typing, which is fine with me, because she is  
10 right now?

11 MR. ERNST: It is fine.

12 MR. TABER: Okay. It is your transcript.

13 MR. ERNST: And I'm going to be asking the  
14 court reporter to read my last question and the  
15 objection.

16 MR. TABER: Sure.

17 (Brief pause.)

18 (Whereupon, a conference call was placed to  
19 Judge Stanley's chambers.)

20 JUDGE STANLEY: This is Judge Stanley.

21 MR. ERNST: Judge Stanley, this is Don Ernst  
22 calling, and we are in the middle of a deposition in  
23 the McCornack versus Actavis Totowa case. We are  
24 taking the expert deposition of Dr. William Galanter.

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1 We are doing it by video conference.

2 We have served a depo notice and Rule 22,  
3 and I have made this call because the last question  
4 and answer, and throughout this deposition, there have  
5 been speaking objections in violation of Rule PTO 22,  
6 and I have asked him to politely refrain.

7 As an example, I will give the last question  
8 and answer that was -- or the last question and the  
9 objection that was made, and I just ask the Court's  
10 direction that counsel refrain from that so we can  
11 finish this deposition.

12 JUDGE STANLEY: Go ahead and read.

13 MR. ERNST: Madam Court Reporter, can you  
14 read the last question and then the objection by the  
15 defense attorney, Mr. Ed Taber?

16 (Record read.)

17 JUDGE STANLEY: I'm sorry, the court  
18 reporter, I can't hear that. What I propose is that  
19 you put her on speaker.

20 MR. ERNST: Go ahead. I'm in front of the  
21 camera at this point in time. Can you reread that,  
22 Madam Court Reporter?

23 (Record read.)

24 MR. TABER: Your Honor, this is Ed Taber.

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1 May I be heard on the point? And can you hear me?

2 JUDGE STANLEY: Yes, I can.

3 MR. TABER: Thank you, Judge. I can barely  
4 hear you, but I do want to thank you, first of all,  
5 for taking Don's call.

6 We are at the end of about a two-and-a-half  
7 hour deposition, and I respectfully disagree with  
8 counsel's assertion that I have been doing speaking  
9 objections throughout.

10 However, now that we are at the very end,  
11 the particular question -- by the way, I have not made  
12 an objection like that once throughout this  
13 two-and-a-half hour deposition, but the reason I said  
14 what I did -- and I one-hundred percent agree with Don  
15 that we are bound by the court order, and I do not  
16 habitually make speaking objections.

17 However, this is a statement that has been a  
18 topic of great discussion, as your Honor knows,  
19 throughout the Digitek litigation. We are now  
20 two-and-a-half years into this litigation. There has  
21 never been a double-thick tablet that was actually  
22 found "out there" as Mr. Ernst just asked this Doctor  
23 to assume that there was.

24 So the reason that I made that objection,

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1 which I consider to be a very unusual objection, which  
2 should only be made in an extremely unique situation,  
3 is that the question was absolutely, as I said, false,  
4 and is designed for one reason and one reason only,  
5 which is to trick this Doctor into believing that  
6 there were double-thick tablets "out there", meaning  
7 out in and among patients, when that exact issue has  
8 never occurred, and we have done discovery on that  
9 issue for two-and-a-half years, and that has shown  
10 that what Mr. Ernst asked, with all due respect, is  
11 directly false.

12 The quote in the question was "You are  
13 aware," which is designed to suggest that such a thing  
14 was true, and then Mr. Ernst said "that there were  
15 random pills out there."

16 So the only reason that I made that  
17 objection, which I almost never intervene in a manner  
18 like that, is that it was just absolutely blatantly  
19 false and designed to trick the witness. That's all I  
20 can say at this point in time.

21 JUDGE STANLEY: Mr. Ernst, did you wish to  
22 respond?

23 MR. ERNST: Yes, your Honor, I will.

24 This witness had not been given -- well, was

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1 given the re-call notice, and the re-call notice  
2 itself states: "Tablets may be double the appropriate  
3 thickness and could contain twice the approved level  
4 of active ingredient."

5 I think it was an appropriate question to  
6 ask, and I would not have called the Court if this had  
7 not happened on many occasions, and my best estimate  
8 would be over ten in this deposition where speaking  
9 objections have been made.

10 That's the reason, and I just want the rules  
11 to be followed, your Honor. That's all.

12 JUDGE STANLEY: Well, let me remind the  
13 attorneys of Rule 30(c)(2), that objections ought to  
14 be stated in a non-argumentative and non-suggestive  
15 manner, and that, of course, underlying that is the  
16 basic evidentiary requirement that questions have a  
17 good faith foundation in fact.

18 Dr. Galanter by now has heard probably more  
19 than he wanted to hear about these tablets, and I hope  
20 that you will wind this up sufficiently so as not to  
21 unnecessarily lengthen this deposition, and I assume  
22 that I will not have to talk with you all again.

23 Is that a sufficient direction, Mr. Ernst?

24 MR. ERNST: I believe that his objection was

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1 a speaking objection. I don't believe it was anything  
2 other than that. It has repeatedly happened. If the  
3 counsel wishes to make an objection, I would just ask  
4 that he make objection, that's the statement,  
5 everything is preserved, and we move on. I would ask  
6 a Court directive on that issue.

7 JUDGE STANLEY: That's not the rule says.  
8 The objection is to be stated concisely, in a  
9 non-argumentative and non-suggestive manner. That's  
10 the extent of my ruling.

11 He obviously has the right to interpose a  
12 variety of objections as the case moves along, and  
13 then you can then take it up with the trial court, but  
14 I am not going to tell him what he can say and not  
15 say, but I can tell you both to follow the rules.

16 Is that clear?

17 MR. TABER: Yes, your Honor. On behalf of  
18 the defense, thank you for your time, and that is  
19 crystal clear, and we will do so.

20 MR. ERNST: Oh, that is clear. Thank you,  
21 your Honor.

22 JUDGE STANLEY: Thank you. Bye-bye.

23 (Whereupon, the conference call was  
24 concluded.)



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1 MR. ERNST: I will have my last question  
2 reread.

3 (Record read.)

4 MR. TABER: Objection.

5 THE WITNESS: I'm answering?

6 MR. TABER: Go ahead.

7 THE WITNESS: The answer is no. The  
8 information I had was from the CVS, and from the FDA,  
9 and from the generic myth thing from the FDA, was that  
10 there was a risk that double-strength pills could get  
11 to patients, and that's why there was a re-call.

12 BY MR. ERNST:

13 Q Now, if there was a risk of double-strength  
14 pills, it is accurate; isn't it, that Mr. McCornack  
15 could have ingested those pills the night of his  
16 death, true?

17 MR. TABER: Objection.

18 THE WITNESS: It depends on how large the  
19 risk was, and my opinion is, since they tested a bunch  
20 of pills in his box, I think it was very unlikely.

21 So I guess the question is do you want a  
22 legal definition of likelihood?

23 MR. ERNST: I will have my question reread.

24 (Record read.)

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1 MR. TABER: Same objection.

2 MS. AHERN: Objection.

3 THE WITNESS: I think, no, it is not likely  
4 within a reasonable doubt.

5 BY MR. ERNST:

6 Q Why do you say that with regard to a  
7 reasonable -- I mean, why do you say it is not likely?

8 A Because there was nothing that came out that  
9 said that any of those pills actually came out, and  
10 they re-called all of them, and Mr. McCornack was not,  
11 in my opinion -- again, my opinion -- suffering from  
12 digoxin toxicity. So that would mean that there was  
13 maybe one pill in a whole bottle of pills, and he  
14 would have to have been the rare patient. There is a  
15 lot of people on digoxin.

16 So I'm giving the legal definition of what  
17 is likely. Is it theoretically conceivable that he  
18 had a single double-strength pill in his bottle? The  
19 answer is of course. I didn't look at every single  
20 one of those pills. It is theoretically possible.  
21 That's why I was trying to ask you are you talking  
22 about a likelihood or is it conceivable. There is no  
23 way to say --

24 Q Wouldn't you agree that taking -- I'm sorry?

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1           A       There is no way that I could say that it is  
2 not conceivable because I don't have the whole bottle  
3 in front of me, and I couldn't look at the pill that  
4 he took that day. So I can't say that it is not  
5 conceivable.

6           Q       Well, if, in fact, there were a  
7 double-strength pill, and he took it, it would be  
8 ingested into his body, true?

9           A       Yes.

10          Q       And by ingesting it into his body, and then  
11 having a postmortem blood sample of 3.6, that is  
12 consistent with a double-strength pill; isn't it?

13                 MR. TABER: Objection. We have been over  
14 this already.

15                 THE WITNESS: I have no idea because I can't  
16 make a premortem level in this guy based on a  
17 three-day postmortem and an axillary. There is not  
18 enough in the literature.

19 BY MR. ERNST:

20          Q       And you would defer to a coroner on that  
21 issue anyway because that's his job, true?

22                 MR. TABER: Objection.

23                 MS. AHERN: Objection.

24                 THE WITNESS: In this particular case, no, I

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1 wouldn't defer to this coroner.

2 BY MR. ERNST:

3 Q And you disagree with the Vorpahl article?

4 A No, not at all. I think in their  
5 sample -- I don't know about anything personally. So  
6 I would have to think that their findings are what  
7 they found in their sample, but Mr. McCornack doesn't  
8 fit into their sample.

9 Q You are aware that the opinions of the  
10 treating physicians of Mr. McCornack factored into  
11 their point of view that 3.6 nanogram per milliliter  
12 level of digoxin, true?

13 MR. TABER: Objection.

14 THE WITNESS: I actually don't recall -- I  
15 don't recall the entire deposition of the treating  
16 doctors to be honest. I certainly agree with your  
17 comment about Dr. Lemm because you showed it to me,  
18 but I don't recall the entire deposition of Dr. Lemm.

19 BY MR. ERNST:

20 Q Now, you are not saying that the opinion of  
21 Dr. Lemm is unreasonable; are you?

22 MR. TABER: Objection. Which opinion?

23 MR. ERNST: The opinion that his death was  
24 caused by digoxin toxicity.

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1 MR. TABER: Objection.

2 THE WITNESS: I'm only saying the part that  
3 you showed me. If you want me to go back to it, that  
4 he fell asleep, that part? That was on Page 93.

5 MR. ERNST: I will have my question reread.

6 THE WITNESS: Okay. Sorry.

7 (Record read.)

8 MR. TABER: Same basis.

9 THE WITNESS: I don't know what opinion you  
10 are talking about, but I will say that I disagree with  
11 his assumptions on Line 7.

12 BY MR. ERNST:

13 Q You know, it is okay to disagree. My point  
14 is you are not saying that his opinion is  
15 unreasonable; are you?

16 MR. TABER: Okay. Objection. Same basis.

17 MS. AHERN: Objection.

18 THE WITNESS: At Page 93, he says: "I think  
19 so," and it says: "If one is asleep." So I think he  
20 is more asking a theoretical question because he  
21 didn't say "My patient." He said: "If one is  
22 asleep," and then he said: "I think so." So I don't  
23 think he is saying something very strongly.

24 MR. ERNST: I will have my last question

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1 reread, and I will ask you to answer it yes or no,  
2 Doctor.

3 MR. TABER: And, for the record, he is not  
4 required to answer yes or no. He can answer it any  
5 way he wants as long as his answer is responsive.

6 You understand that?

7 THE WITNESS: Yes. I'm just waiting.

8 MR. TABER: Go ahead.

9 (Record read.)

10 THE WITNESS: I would like to answer your  
11 question clearly, if you could just clarify one thing:  
12 Are you specifically talking about his opinion on  
13 Page 93, starting at Line 7? Because there are lots  
14 of his opinions in this deposition, I'm assuming.

15 MR. ERNST: Yes.

16 THE WITNESS: Okay. In my opinion, yes, I  
17 think it is unreasonable.

18 BY MR. ERNST:

19 Q And the basis for that is what?

20 A I don't think the patient had digoxin  
21 toxicity.

22 Q Okay. You've disagreed with your own  
23 pathologists in your own hospital multiple times,  
24 true?

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1 A Yes.

2 Q And when you disagree with them, do you  
3 think their opinions are unreasonable?

4 A Sometimes yes and sometimes no. The reason  
5 I tend to disagree with them is because they don't  
6 have the premortem information. So I have the luxury  
7 of seeing the postmortem results, and I have the  
8 luxury of seeing the premortem data, and they are  
9 supposed to look at the premortem data, but they don't  
10 tend to look at it well. So that tends to be why I  
11 disagree with them. There is something that they  
12 don't know. It is not that they are not responsible.

13 Q Actually seeing the patient and seeing  
14 premortem data is important to you; isn't it?

15 A I would say seeing the patient depends on  
16 the disease, but seeing the data and the patient, if  
17 there is something relevant in seeing the patient, is  
18 important when you are trying to figure out what  
19 happened.

20 Q And the difference between you and Dr. Lemm  
21 and Dr. Von Dollen, one of them is that they actually  
22 saw the patient alive, being treated with digoxin, and  
23 you never did; isn't that true?

24 A Yes, that is one of the differences. That's

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1 true.

2 MR. ERNST: I would like to go off the  
3 record for a couple of minutes and review my notes.

4 (Recess taken.)

5 MR. ERNST: Let's go back on the record a  
6 moment.

7 BY MR. ERNST:

8 Q Have you produced your entire file today?

9 A What do you mean by my entire file?

10 Q The entire file on this case, the McCornack  
11 case.

12 A As discussed before, no. There were some  
13 e-mails from Mr. Moriarty and Mr. Taber. Like  
14 Mr. Taber sent me e-mails on where to come for the  
15 deposition, things like that. I didn't print all  
16 those things.

17 Q What --

18 A Go ahead, I'm sorry. We are talking over  
19 each other.

20 Q What about the e-mails from Mr. Moriarty?

21 A No, I don't have them here, as I discussed.

22 Q Is there anything else that you didn't bring  
23 with you today?

24 A Yes. There was some papers sent to me, I



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1 assume by Mr. Moriarty, not Mr. Taber. I didn't bring  
2 them if I didn't consider them interesting and include  
3 them in my opinion.

4 Q What papers did he send to you that you  
5 didn't include?

6 A I don't know because I didn't put them on  
7 the list. Again, my assumption was that my job was to  
8 include all the things that I used to make my opinion.

9 Q All right. So outside of the e-mails --

10 A I'm sorry, Mr. Ernst. Mr. Ernst, let me  
11 finish the last question. I wasn't quite done. I  
12 apologize. I just want to be completely full.

13 I spend a lot of time surfing the Web when  
14 I'm looking for things. So there were a lot of little  
15 abstracts and things that I looked at when I was  
16 trying to review information, as you can assume when  
17 you do legal research.

18 So there is lots of articles and things that  
19 I found that looked interesting from the title, and I  
20 read it and said "This really has nothing to do with  
21 anything." So there is also articles that I found,  
22 that I didn't include, because I found them, and I  
23 looked at them, and thought that they had nothing to  
24 do with anything. So I didn't include them in my

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1 opinion. I just want to be complete on your question.

2 Q But if you are surfing the Web, and you  
3 found something important, you would have either  
4 printed it out or saved it electronically, true?

5 A Yes. I tend not to print things out, and I  
6 save a lot of stuff electronically. So I suspect that  
7 I have electronic papers on my computer that I didn't  
8 use in my opinion, that I didn't bring, again under  
9 the assumption that I was only supposed to bring  
10 things that informed my opinion. I'm trying to be as  
11 open about this as possible so you have a total idea.

12 Q Surprisingly, it is important that I get the  
13 e-mails and the letters from Mr. Moriarty, and it is  
14 also important that I have the materials that were  
15 sent to you by Mr. Moriarty.

16 Now, as far as surfing the Web goes, if you  
17 looked at an article, and you didn't think it was  
18 applicable to you, that's okay.

19 A Okay.

20 Q But I really am interested in what was sent  
21 to you by Mr. Moriarty.

22 A Okay.

23 MR. ERNST: So what I would like to do is  
24 this: Ed, how about you agree to forward the letters

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1 and e-mails from Mr. Moriarty to me, together with the  
2 papers that were sent to Dr. Galanter, and I don't  
3 think I will have additional questions, but, if I do,  
4 I will call you and address those issues. Is that  
5 agreeable with you?

6 MR. TABER: Not entirely. Just so we are  
7 clear, we are not agreeing to produce the witness  
8 again under any circumstances. We think we have given  
9 you everything you are entitled to under the new rule.

10 In terms of the correspondence, he has  
11 already testified that you have access to everything  
12 that he relied upon, which is the standard under the  
13 new Rule 26. So if we have, for some reason, not  
14 brought, assuming they were irrelevant, letters that  
15 say: "I will see you next week at 6:00" or "Here is  
16 the Dr. Lemm transcript which is listed," I don't see  
17 how that makes any difference; but I will, Don, pass  
18 on your request to my co-counsel, and we will then  
19 decide whether there are some things that you should  
20 be entitled to that you don't have yet.

21 I don't think there are. I think we brought  
22 everything. We went through, at your request, the  
23 document duces tecum multiple times in order to make  
24 sure we brought everything responsive. So I thought

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1 we did a pretty good faith job of doing that, but I  
2 will definitely pass on your request to Matt and  
3 company, and if we take a second look and think there  
4 is something else, you will have it, but I doubt  
5 that --

6 MR. ERNST: You know, it is interesting:  
7 You don't get to decide, unilaterally, what you  
8 produce and not produce in his file. Item 8 that we  
9 specifically requested states: "All documents,  
10 including additional materials received or reviewed,  
11 tangible things, data or writings that were relied  
12 upon, examined, considered or rejected in preparing  
13 reports in the MDL Digitek litigation."

14 Now, if, in fact, Moriarty sent him  
15 materials that he didn't consider, I really want to  
16 know what that is, and rather than terminate this  
17 deposition, I'm going to adjourn it because Items 2,  
18 3, 4, 5 and 8 have not been produced.

19 So we may agree to disagree, and I'm going  
20 to want that material, and I'm being generous in  
21 saying, if you send it to me, I may or may not wish to  
22 take further deposition, but I want to have it to look  
23 at, and it is my and my client's right.

24 So I'm going to adjourn this deposition. We

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1 are going to type up this portion of the transcript,  
2 and then you can discuss this with Mr. Moriarty, and  
3 we will meet and confer either later today or tomorrow  
4 or Friday if that's agreeable with you.

5 Do you want to meet and confer Friday at  
6 11:00?

7 MR. TABER: No, I'm actually not back into  
8 town until after Friday, but I just respectfully  
9 disagree that we have not produced everything that we  
10 are obliged to. Your discovery request is still  
11 subject to the rules, whether you ask for something or  
12 not, and I do not agree to adjourn the depo. Our  
13 position is you get one crack at the witness. This is  
14 your opportunity, and if you adjourn it, we do not  
15 agree to produce him again.

16 If you have any more questions --

17 MR. ERNST: I want the documents to question  
18 him with, and I may not have questions. So I'm  
19 adjourning the depo. So let's be done, and,  
20 adjourning it, we reserve our rights on these issues,  
21 including your speaking objections. So why don't we  
22 type this up into a booklet.

23 Doctor, you have a chance to read and  
24 review. Do you want to waive signature? You don't

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1 have to review it if you don't want to.

2 MR. TABER: We have talked about it, and he  
3 does not wish to waive. He will review the  
4 transcript.

5 MR. ERNST: That's fine. I would like to  
6 have this transcript --

7 MR. TABER: Are we still on the record?

8 MR. ERNST: Yes, we are still on the record.

9 That's fine. How do you wish to handle the  
10 transcript being sent to him?

11 MR. TABER: We will do whatever the court  
12 reporter normally does.

13 MR. ERNST: Well, for the court reporter,  
14 I'm going to want his transcript, and I'm going to  
15 want it to use in opposition to the motions that are  
16 going to be filed today.

17 So, Madam Reporter, how soon can we have  
18 this transcript? Can you have it to me by next  
19 Monday?

20 THE REPORTER: Monday morning.

21 MR. ERNST: Perfect.

22 MR. TABER: Hunter, any questions on your  
23 end?

24 MS. AHERN: No.

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1 MR. TABER: Any more questions on your end,  
2 counsel, for Plaintiff?

3 MR. ERNST: Hold on one second.

4 (Brief pause.)

5 MR. ERNST: Okay. We got a couple more  
6 questions here. See, this is what happens.

7 MR. TABER: Okay. Fire away.

8 BY MR. ERNST:

9 Q Doctor, do you have any issues with the test  
10 that was performed by NMS showing the digoxin level of  
11 3.6 nanograms per milliliter?

12 MR. TABER: Objection.

13 THE WITNESS: No, I don't know the company.  
14 I assume that they are reliable. I have to assume it  
15 is okay.

16 BY MR. ERNST:

17 Q All right. The next couple of questions:  
18 If bloating or nausea is a clinical sign of digoxin  
19 poisoning, if McCornack was asleep, would he have  
20 reported nausea?

21 MR. TABER: Objection, compound.

22 THE WITNESS: Yes, there is actually three  
23 questions there. So I would say the first question is  
24 bloating is not typically described, but nausea is

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1 typically described. That's the answer to the first  
2 question.

3 MR. ERNST: Okay.

4 THE WITNESS: To the second question, it  
5 would be to the degree. Many people wake up from  
6 their sleep to throw up when they have food poisoning  
7 or something like that. So I would say the degree of  
8 the nausea would decide whether it is bad enough to  
9 wake someone up in the middle of their sleep. So  
10 sometimes nausea wouldn't wake people up and sometimes  
11 it would.

12 BY MR. ERNST:

13 Q And if Mr. McCornack had nausea as a result  
14 of digoxin toxicity, it never would have been  
15 reported; would it?

16 MR. TABER: Objection.

17 THE WITNESS: It would be hard to say if it  
18 was mild nausea. Only after he went to bed, his wife  
19 wouldn't have been able to report it. If it was more  
20 than mild nausea, he probably would have gotten up  
21 from bed to throw up, and I'm just assuming his wife  
22 would probably know about it. If it occurred before  
23 he went to bed, his wife would probably know about it.

24



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1 BY MR. ERNST:

2 Q But we don't know because he was asleep when  
3 he passed, true?

4 A Well, we don't know about the after falling  
5 asleep. If he had nausea before falling asleep, he  
6 might have told his wife, he might not have. If he  
7 threw up, his wife would probably know. So the answer  
8 is it depends. The answer is, yes, it could not have  
9 been known by his wife and in some instances it could  
10 have been known by his wife.

11 Q Now, the same question with regard to vision  
12 problems: If he had digoxin toxicity the night that  
13 he died, his vision problems may have occurred after  
14 he went to bed or the vision problems stemming from  
15 the bradycardia could have occurred after he was  
16 asleep; isn't that true?

17 MR. TABER: Objection.

18 THE WITNESS: By definition, no, because  
19 vision is a perception. So when you are asleep, you  
20 don't see. So I don't think he would have a vision  
21 problem.

22 BY MR. ERNST:

23 Q So if a person has dizziness or vision while  
24 they are in bed asleep, they would be unable to

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1 self-report it; isn't that true?

2 A I don't know if it really even exists  
3 because you don't see when you are asleep. You know  
4 what I'm saying? I don't know if there is -- I don't  
5 know what it means to have a vision problem when you  
6 are not looking at something.

7 Q Right.

8 You are aware that digoxin toxicity can  
9 present a host of symptoms, and sometimes it just  
10 presents with nausea, sometimes it presents with  
11 dizziness, and sometimes it just presents with sudden  
12 cardiac death; isn't that true?

13 MR. TABER: Objection.

14 THE WITNESS: In general, not specific to  
15 this patient, but, yes, I agree with that.

16 MR. ERNST: Okay. Thank you very much,  
17 Doctor. We don't have anything else.

18 THE WITNESS: Okay. Thank you.

19 MR. TABER: I have just one set of questions  
20 to respond to that last inquiry, Doctor.

21 E X A M I N A T I O N

22 BY MR. TABER:

23 Q How common in your experience is death from  
24 digoxin toxicity?

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1 MR. ERNST: Objection.

2 THE WITNESS: Well, in the paper we  
3 published, they found that it was about .1 percent of  
4 hospital admissions were for digoxin toxicity.

5 MR. TABER: Death is my question.

6 THE WITNESS: And I will get to that.

7 And the majority of the patients don't die.  
8 So as a discharge diagnosis in the hospital, it would  
9 be a very, very rare occurrence. That's the  
10 statistics.

11 Me personally, I have never seen a patient  
12 die from digoxin toxicity. So I don't really have an  
13 experience to put any number on it because I have  
14 never seen a patient die from digoxin toxicity.

15 Q How many years have you been practicing  
16 medicine?

17 MR. ERNST: Objection.

18 THE WITNESS: As a licensed attending, 15  
19 years.

20 MR. TABER: No further questions.

21 MS. AHERN: No questions here.

22 MR. TABER: Any more questions from the  
23 Plaintiff?

24 MR. ERNST: Just a moment.

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1 FURTHER EXAMINATION

2 BY MR. ERNST:

3 Q Would you agree that postmortem  
4 redistribution of digoxin, that there is disagreement  
5 among experts in the field?

6 MR. TABER: Objection, overbroad.

7 THE WITNESS: I would say -- I don't know  
8 who an expert is, but I would say the papers I looked  
9 at had disagreement. Some of the papers said you  
10 really cannot determine levels premortem, and  
11 certainly that one paper, which we have been talking  
12 about, suggested you can determine premortem.

13 I think it has to do with how well you read  
14 the statements and what conclusions you draw. So you  
15 can always infer things in one cohort of patients and  
16 one experiment. The question is whether you can  
17 transpose that onto other patients I think is the  
18 difficulty.

19 BY MR. ERNST:

20 Q You would acknowledge there is disagreement  
21 amongst experts as to whether or not you can compute  
22 pre-death levels of digoxin from postmortem testing?

23 A Assuming that the papers I read are from  
24 experts, the answer is, yes, I think there is some

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1 disagreement.

2 Q And none of that, in your  
3 opinion -- disagreements are common among experts, but  
4 that doesn't give rise to the level of  
5 unreasonableness; does it?

6 A Say it again? The level of  
7 unreasonableness?

8 Q Yes.

9 You don't think somebody is unreasonable  
10 because they say: "Well, I think it is premortem  
11 blood levels in particular," right, based upon the  
12 literature out there; do you?

13 MR. TABER: Objection.

14 THE WITNESS: In this particular case, I do,  
15 because there is no literature on patients who have  
16 been dead for three days and drawing their blood  
17 levels. I don't know what to make of it because it is  
18 three days' old. So even if you believe that paper,  
19 it would only apply to patients whose blood had been  
20 drawn within a day or ten hours as a mean.

21 So I'm going to finish my statement: So I  
22 think it is scientifically unreasonable to assume that  
23 you can --

24 MR. ERNST: Objection. There is no question

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1 pending.

2 THE WITNESS: I'm finishing my answer.

3 MR. ERNST: It is unresponsive.

4 MR. TABER: He is finishing his answer.

5 THE WITNESS: I'm finishing my answer

6 because you guys started talking to each other.

7 MR. ERNST: Well, there is no question

8 pending.

9 Before you are going to answer your  
10 question, why don't you have the last question reread,  
11 because it is non-responsive.

12 MR. TABER: Go ahead and finish your answer.

13 THE WITNESS: You are asking me if it was  
14 unreasonable -- that was the question, as I recall  
15 it -- and I think it is unreasonable because the  
16 patient, in our case, didn't match the patients in any  
17 of the studies that looked at this. So I don't think  
18 it is reasonable to make guesses about something that  
19 you can't find in the literature.

20 MR. ERNST: Objection. Preserve a motion to  
21 strike.

22 BY MR. ERNST:

23 Q It is reasonable that Mr. McCornack, in your  
24 opinion, died of sudden cardiac death, though; isn't

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1 it?

2 A Yes.

3 Q And it is reasonable that digoxin toxicity  
4 causes sudden cardiac death; isn't it?

5 MR. TABER: Objection.

6 THE WITNESS: That was answered before, but  
7 the answer is, yes, digoxin toxicity can cause sudden  
8 cardiac arrest.

9 BY MR. ERNST:

10 Q And it is reasonable to assume that  
11 Mr. McCornack was exposed to pills that could have  
12 been double strength; isn't that true?

13 MR. TABER: Objection, speculative.

14 MS. AHERN: Objection.

15 THE WITNESS: It seems that the number of  
16 pills was -- again, is it conceivable? The answer is  
17 yes. If it is legal likelihood, they found like some  
18 handful of pills out of millions of pills. So if you  
19 are looking at a number, like in some legal  
20 definition, the answer is no because it is very, very  
21 unlikely.

22 BY MR. ERNST:

23 Q Well, do you know how many pills they found?  
24 Did you know that they tested all the pills when they

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1 were returned? Do you know if there were any testing  
2 program done?

3 A I have no idea. I only know what the FDA's  
4 letters said.

5 Q Do you know if Actavis conducted a study of  
6 all the returned pills to see if there had been any  
7 additional pills out there that had been double  
8 strength or weren't double strength?

9 A No, I have not seen such evidence.

10 MR. TABER: Objection. Hold on.

11 BY MR. ERNST:

12 Q So you really don't have a foundational  
13 basis to make any opinions with regard to whether or  
14 not double-strength pills were applicable in this  
15 particular case; do you?

16 MS. AHERN: Objection, argumentative.

17 MR. TABER: Objection.

18 THE WITNESS: I do have a basis. The FDA  
19 said were 20 double-sized tablets in a sample of  
20 approximately 4.8 million tablets. That's from the  
21 Facts and Myths About Generic Drugs. So that is the  
22 basis of my opinion because that's about all I have.

23 BY MR. ERNST:

24 Q Are you aware that Mr. McCornack got the



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1 re-call notice after he was dead?

2 A I actually didn't -- I didn't see the  
3 re-call notice. So the answer is I don't recall it.  
4 I can find out because it is in Lemm's deposition.

5 Q Right.

6 And, in fact, you formulated the opinions  
7 you have before you knew about the re-call notice of  
8 the double-strength tablets; isn't that true?

9 MR. TABER: Objection. We have been over  
10 this.

11 THE WITNESS: No, that's actually not true.  
12 I saw the re-call letter, but I didn't see the one  
13 specifically to McCornack. I don't recall it. It is  
14 in my packet.

15 MR. ERNST: That's all I have. That's all I  
16 have. That's all I have.

17 MR. TABER: We will not waive signature.

18 Anything else, Hunter?

19 MS. AHERN: No.

20 MR. ERNST: I would like my e-mail  
21 transcript by Monday morning if I can get it.

22 Thank you.

23 Thank you, Doctor.

24 (Ending Time: 1:10 p.m.)

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1 UNITED STATES DISTRICT COURT OF THE  
 2 SOUTHERN DISTRICT OF WEST VIRGINIA  
 3 CHARLESTON DIVISION

4 KATHY MC CORNACK, et al., )  
 5 )  
 6 Plaintiffs, )  
 7 vs. ) No. 2:09-cv-0671  
 8 )  
 9 ACTAVIS TOTOWA, LLC, et al., )  
 10 )  
 11 Defendants. )  
 12 ----- )

11 I hereby certify that I have read the foregoing  
 12 transcript of my deposition given at the time and  
 13 place aforesaid, and I do again subscribe and make  
 14 oath that the same is a true, correct and complete  
 15 transcript of my deposition given as aforesaid, with  
 16 corrections, if any, appearing on the attached  
 17 correction sheet(s).

18 \_\_\_\_ correction sheets attached.  
 19 -----

20 WILLIAM L. GALANTER, M.D., Ph.D.

21 SUBSCRIBED AND SWORN TO  
 22 before me this \_\_\_\_ day  
 23 of \_\_\_\_\_ A.D., 20\_\_.

24 ----- \*

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1 STATE OF ILLINOIS )

2 ) SS.

3 COUNTY OF MCHENRY )

4

5 I, HEATHER PERKINS-REIVA, Certified Shorthand  
6 Reporter in and for the County of McHenry and State of  
7 Illinois, do hereby certify that WILLIAM L. GALANTER,  
8 M.D., Ph.D. was first duly sworn to testify the whole  
9 truth and that the above deposition was recorded  
10 stenographically by me, and was reduced to typewriting  
11 under my personal direction.

12 I further certify that the said deposition was taken  
13 at the time and place specified.

14 I further certify that I am not a relative or  
15 employee or attorney or counsel of any of the parties,  
16 nor a relative or employee of such attorney or counsel  
17 or financially interested directly or indirectly in  
18 this action.

19 In witness whereof, I have hereunto set my hand and  
20 affixed my seal of office at Algonquin, Illinois, this  
21 8th day of August, A.D., 2011.

22 \_\_\_\_\_

23 Heather Perkins-Reiva, C.S.R. No. 084-003714

24